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PACIFIC FISHERMAN

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National Fisheries Convention . . . p47

JUN 1956
U.S. FISH & WILDLIFE SERVICE

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COUNTING SALMON WITH A CAMERA—Migrating Red salmon moving in a narrow band into Lake Aleknagik are recorded by vertical photography from a Fisheries Research Institute tower.

MILLER FREEMAN PUBLICATION

Fishing for just the right rope?

See Columbian ...world's most complete line of natural and synthetic ROPE and TWIN

Listed below are some of the natural and synthetic ropes and twines in Columbian's wide range of fishermen's cordage. These are "stock" items, available from your dealer's shelves or easily secured. There are many others listed in our catalog . . . and many beyond that being developed regularly through our continuing research program. If you have need for a special cordage not listed here or in the Columbian catalog, just tell your dealer, or write the company direct.

Columbian NYLON and DACRON Ropes and Twines

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There is a Columbian Rope or Twine exactly right for your uses, your type of fishing, your methods of handling.

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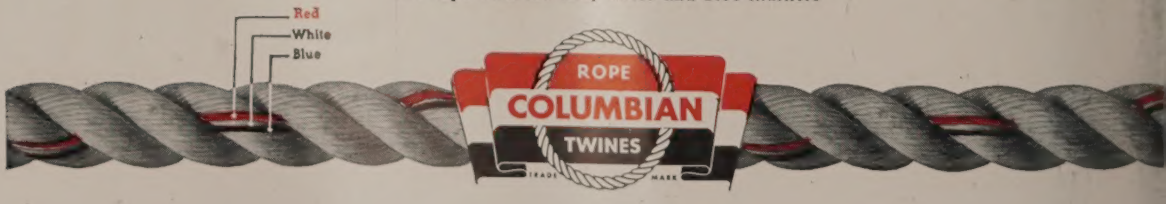

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Charles L. Shaw
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Carlton L. Hillyard
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A MILLER FREEMAN PUBLICATION

The New Technology In An Ancient Industry

• The New Technology produces profound changes in one of Man's oldest industries—fishing.

We see the changes, use them and are broadly influenced by them; but how often do we pause to identify them, weigh them, appraise the effects they have had, and the effects they—and other yet unguessed—will have upon the future?

What are some of these changes?

• None more profound in impact, implications and potential than refrigeration—refrigeration as it is coming to be applied. In the new technology fish may be frozen where caught and transported throughout the world.

The new refrigeration has political as well as economic impacts—for it frees the fleets from the limitations of their own coastal fisheries and opens to them seas whose fish other peoples regard as their property.

And in the markets of America in the decade since the war refrigeration has brought revolution—and a new standard of fish freshness and variety to thousands of outlets.

• Electronics evidence the effect of the new technology upon fisheries. Before the war fishing boats had radiophones and some direction finders, but few could boast more elaborate instrumentation.

Ten years—and echo sounders are standard in some fisheries. Radar and loran, which were military secrets a dozen years ago, are commonplace on the well-equipped fisherman. Today's fishing master finds his fish, as well as his fishing ground, with his sounder; and then magnifies the image to determining the density of the school, and even the species composing it.

And who shall say that the boundaries of electronics have been sighted, let alone explored?

• Synthetic fibers set new standards of productivity for fishing gear. In half a dozen years nets made from the products of chemical cookers have given the gillnet a new significance throughout the world. Those years have brought as profound a change in gillnets as any since Simon Peter fished them on the Sea of Gallilee.

And have we discovered all synthetics? Or even learned to use all that we now know?

• Plastics? Their uses in the fisheries are just beginning to be understood; but who whittles netting needles out of crabapple wood today? And why use cork for floats when plastics have greater flotation, and far longer life?

Unseen plastic facing gives wood a new potential, and metals longer life. It rots not, it rusts not; and teredoes starve to death in the presence of plastics.

And our use of plastics has only just begun.

• Antibiotics bring new challenges—today. What have medicines to do with the fish business? No man can say as yet, but scientific researchers find that aureomycin in minute amounts inhibits the growth of spoilage bacteria and at small cost prolongs the period over which fish remain fresh.

Here is a fascinating field, with endless implications of benefit to the fisheries. Aureomycin promises much, and encourages further studies on a horizon whose possibilities challenge the imagination, although we see them but dimly in dawning light.

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Fish the same nylon netting and rope season after season and save the cost of rehanging, repair or replacement. Rugged nylon nets are unaffected by marine rot and fish slime . . . have outlasted natural-fiber nets by three to one! Nylon is lighter-weight, won't soak up water—quicker and easier to handle, wet or dry. Leading netting manufacturers combine their skills and experience with the basic characteristics of nylon to make netting that cuts fishing costs, improves efficiency. Ask your regular supplier for complete information, or write: E. I. du Pont de Nemours & Co. (Inc.), (PF-6), 2494 Nemours Building, Wilmington 98, Delaware.

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Need no salting—completely resistant to damage caused by fish slime.

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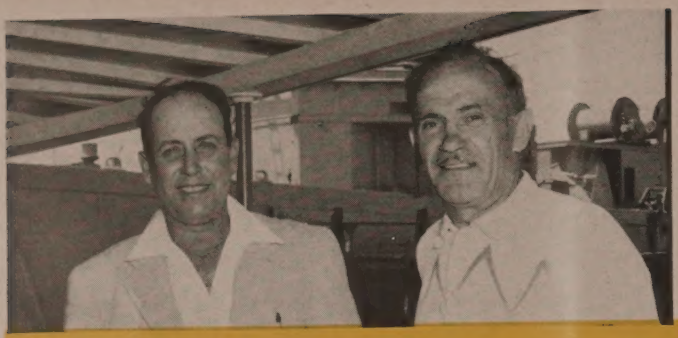
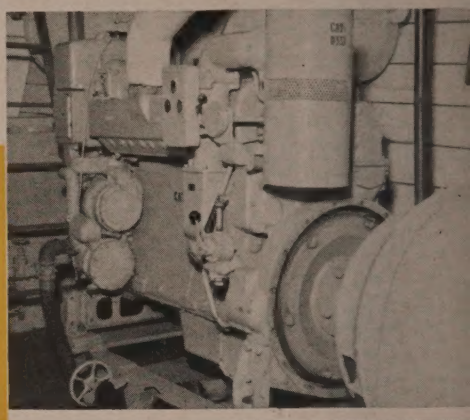
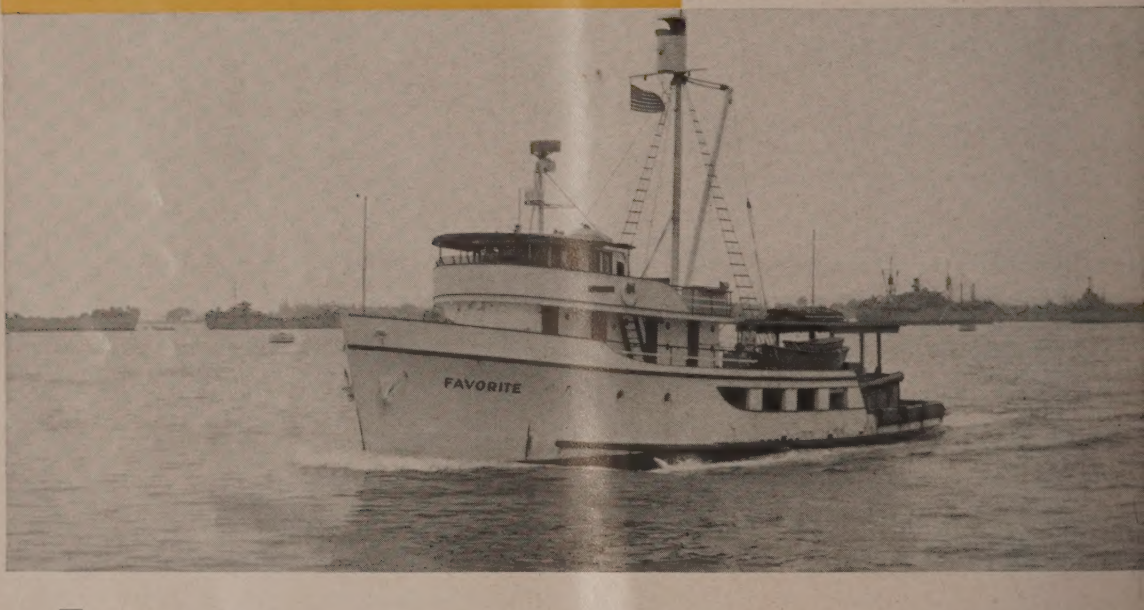


Manuel S. Madruga (left) and Antonio G. Rosa, co-owners of the *Favorite*.

One of a pair of Cat D337 Electric Sets, sup all auxiliary power aboard the *Favorite*.



ANOTHER ROSA BOAT USES CAT* D337 ELECTRIC SETS FOR AUXILIARY POWER



The *Favorite* is one of the Rosa fleet of six big tuna boats, fishing out of San Diego, California. She is 104 feet, 10 inches long, with 25-foot beam and a draft of 12 feet, 8 inches. And she's the latest Rosa boat to use Cat Electric Sets for auxiliary power.

Co-owner Antonio G. Rosa says: "The reason we like Caterpillar Diesels in our boats is because in 1943 we installed two Cat Engines in the *Lusitania*. We were so pleased with their performance that we installed two more in the *Portuguesa* and now two in the *Favorite*. We're as well satisfied with these D337s as we are with the other Cat Diesels."

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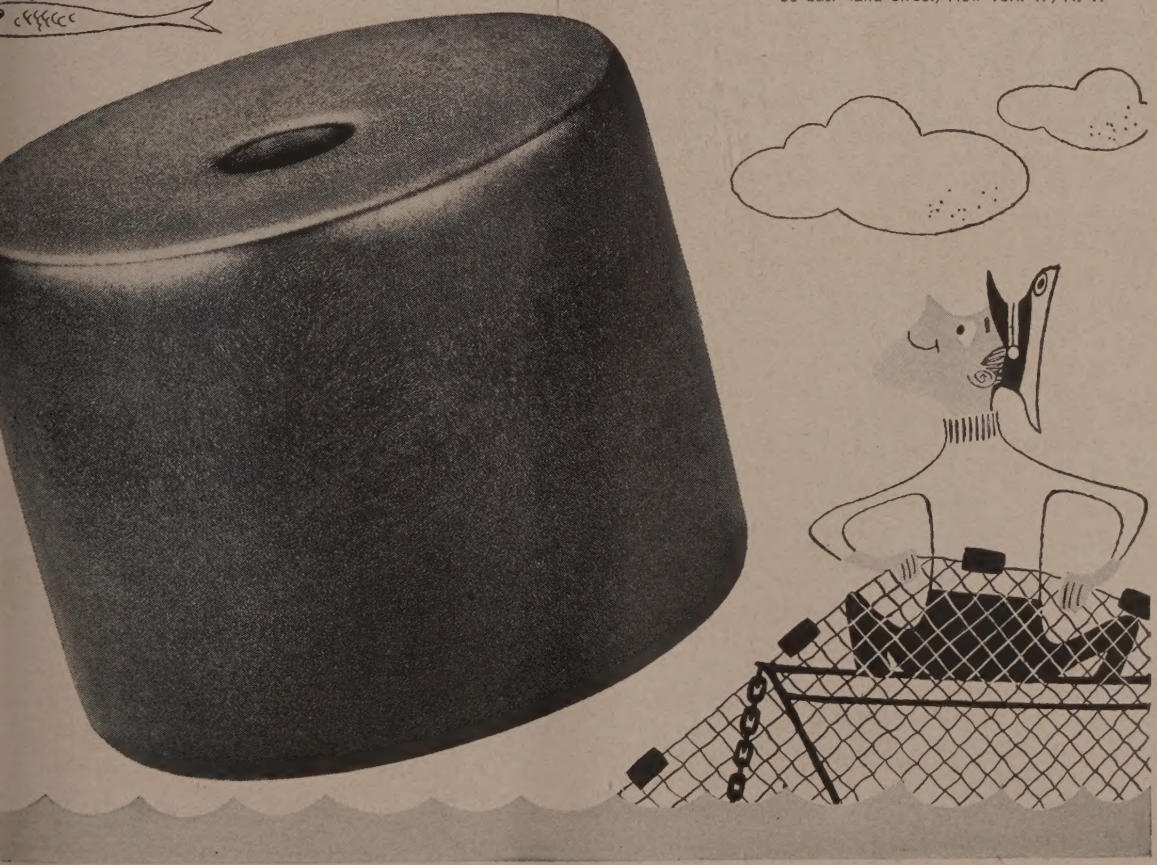

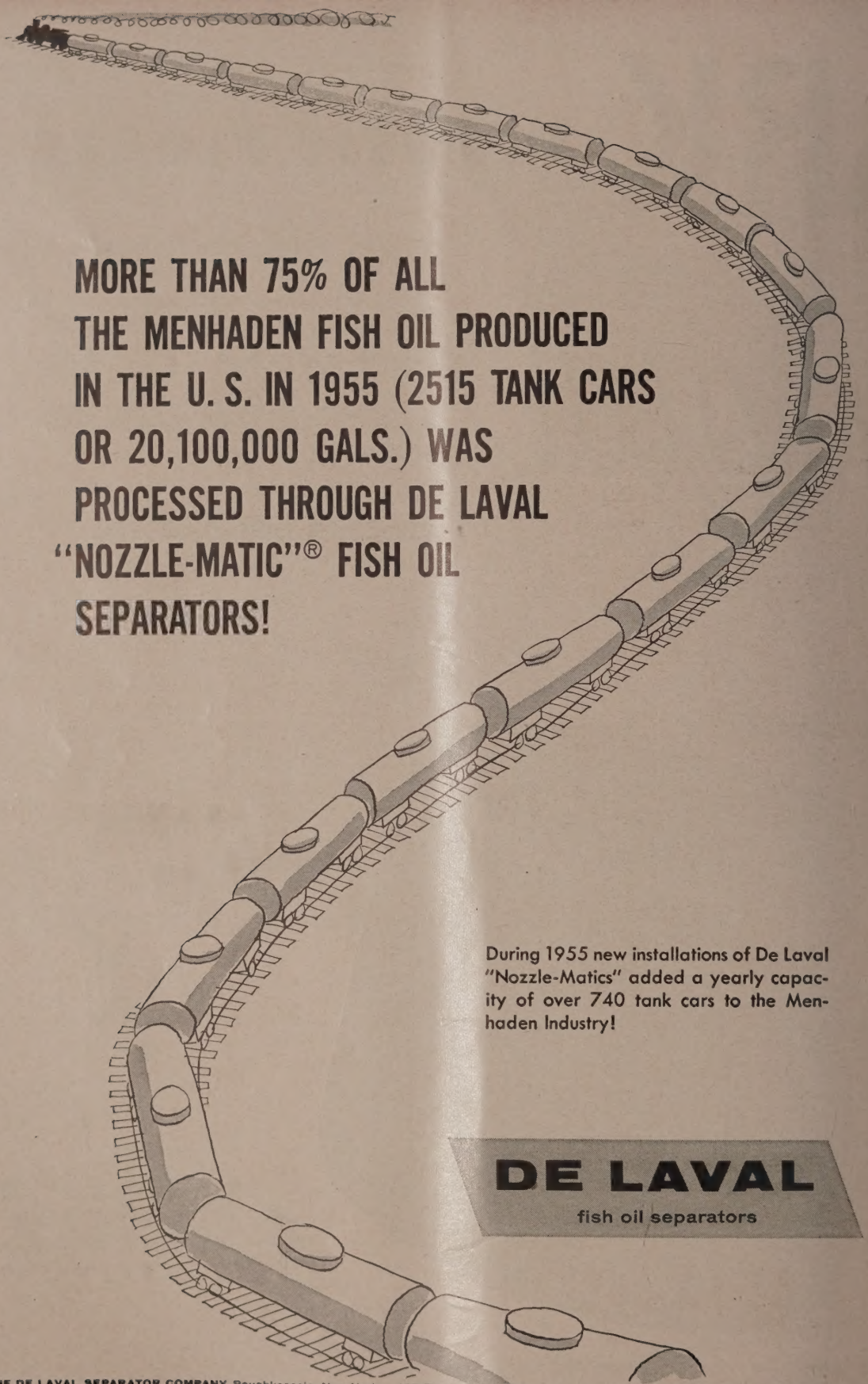

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3000 Spongex Floats celebrate their 5th birthday

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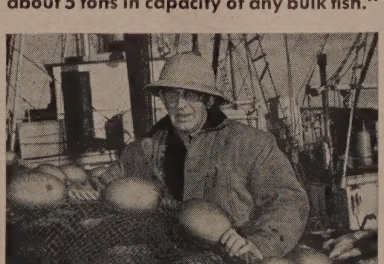
"I'm convinced Spongex floats are a jor improvement over what we've d in the past. The floats on my net ve been in service for five seasons d they look practically new. With nventional floats, I'd have started the third set by now. Furthermore, ks absorb water, lose buoyancy—e valuable time to dry out. This esn't happen with Spongex floats—y absorb virtually no water at all.

"Another real advantage is a 1500 lb. reduction in total weight. This means lighter work for the crew and with the net carried on the stern a difference of about 5 tons in capacity of any bulk fish."



As fishing supervisor, Capt. Clark says, "Ultimately the entire fleet will be equipped with Spongex floats."

Since the oval floats have been in service, B. F. Goodrich has developed a cylindrical shaped float in 12 sizes from 3" x 1½" to 6" x 7½". Generally, these floats are believed to be even better than the original ones.

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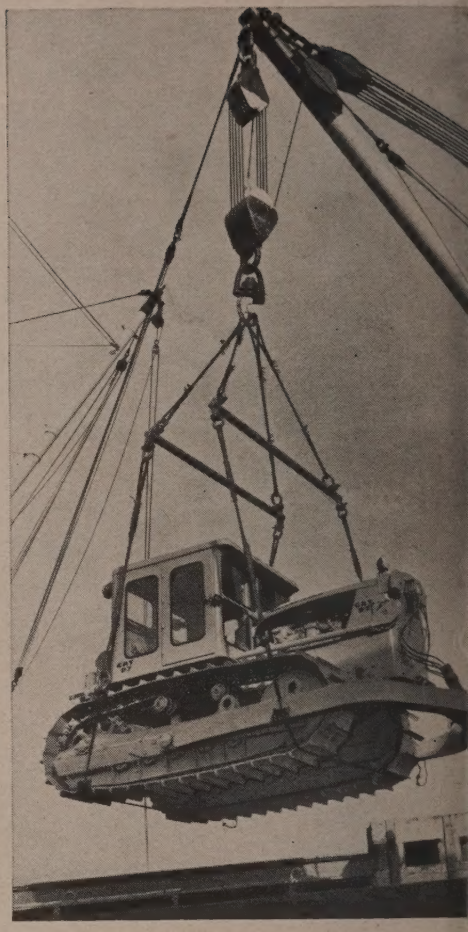

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UNITED STATES STEEL

The *Captain Manuel*, 65-ft. trawler, and the *Constitution*, 72-ft. trawler—just two of the boats in Capt. Santos' fleet—powered by D-1700 Caterpillar Diesels, driving through Twin Disc Marine Gears.

ptain John Santos says:

Dependable performance s my first consideration . . ."

or 45 *years, dependable perform-*
e of his equipment has been Capt. tos' first consideration. "That's the d of performance I get in my ts," he says, "from Caterpillar rine Diesels *working through in Disc Marine Gears.* These gears endably transmit power . . . with -speed, full-power operation in er direction of rotation without rheating. Reversing is one quick, ooth, efficient operation—with gear-clashing or complicated synchronizing mechanism."

If *your* present boats—or the ones you're planning to buy are in the 40 to 340 hp and 600 to 2500 rpm range —find out *now* how Twin Disc Marine Gears add *new* flexibility—*new* ease of operation—smoother, quieter-running and provide the longest wear-life possible. Consult Twin Disc Specialists about *your* particular marine gear problems. Write today to Twin Disc Clutch Company, Racine, Wisconsin, for further details.

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MG-511**	100-240	1000-2100

*Fluid Coupling-equipped
**With rubber block drive.

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ALL FOUR have been proved by Pacific Coast salmon fishermen from Puget Sound to Bristol Bay.

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On the Line . . .
Make Sure It's
PLYMOUTH

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Serving the Northwest and Alaska since 1897

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London Letter

This letter is a report from the editor of "Pacific Fisherman," presently in the United Kingdom on an editorial mission.

London is fully aware of the dull outlook for 1956 mon production—much more so than New York seems be; and not a factor who can find a bright ray.

Moreover, the London trade is fully informed as to the plications in the Soviet's declaration of a high seas "con- vation zone." If it actually becomes effective, and few l there is any doubt it will, then Great Britain's salmon pply will pass from shortage to stringency.

Last year the United Kingdom bought 50,000 to 60,000 l cases of salmon from the U. S. S. R., some Reds, but stly Silvers and Pinks.

Bulganin and Kruschchev, called "B. and K." by the tons, were in London at the time of P.F.'s survey. The n trade, and the average Londoner, seemed acutely ious that their visit be not misunderstood in the U. S. The attitude of London toward B. and K. seemed one anxiety, rather than enthusiasm; anxiety lest something pen, to disturb relations either with Russia or the United tes. And when they left, to a twittering of snickers, ner than cheers, as we saw and heard ourselves, relief ed in as they rolled out.

Even today the British market for salmon is "strong- ng," as they say here—a condition which can be ex- ted to continue as long as import control lasts, London lers think.

TUNA—What about it? "Tuna is a phenomenal thing," man said. "Until last summer the volume used had n limited, and the rate of growth slow. Then, in July l August last summer the demand suddenly took fire, il apparent consumption for the year was near 750,000 es. In the past six months 500,000 cases have come into U. K. "Tuna is the cheapest quality canned fish on the tish market today. How far the consumption can be anced we cannot as yet anticipate."

Virtually all this tuna comes from Peru, with a little from stralia and the Mediterranean countries. The Peruvian duct's retail price ranges from 35c to 28c for halves; l from 21c to 16c for quarters.

apan — and the United States — have not been able to import permits — but there is no restriction on tuna orts from Peru.

SALMON STEAKS from Japan are a new, and surpris- ly successful import.

The British government allowed £200,000 of frozen fish port from Japan for the 1955 pack.

Among the items it bought were about 500,000 pounds frozen salmon steaks — Chinooks, Silvers and Chums. ese steaks are sawn from salmon shelf-frozen individual- on the factory ships. The slices are heavily glazed and led in a polyethylene bag, which is packed in a waxed sumer carton. Net weight of contents is 14 ounces.

Substantial increase in volume is anticipated for 1956-7, if the Japanese production is not curtailed.

It was learned that, in addition to these steaks, orders have already been placed for a "substantial" quantity of Japanese dressed frozen Chinooks, Silvers and Falls.

FRESH vs. FROZEN — Heated argument is heard at Billingsgate Market over whether packaged frozen fish products have a future in Britain.

The old-timers, the conservatives, say that the very nature of Britain makes it possible to have fresh fish in every hamlet; that the English always have bought their fish fresh from the local fish monger—always have, and always will.

The younger men say that even today the "multiples"—chain stores—have cabinets and sell frozen fish in steadily growing volume, already considerable. They see a new day, dawning rapidly.

FISH STICKS are on the make in Britain. Volume is not yet great, but the rate of growth is remarkable for a new product in an old, conservative market.

Will they become important here? Yes; but not until the trade finds that they can do so only on the basis of sound quality. Too many today regard them as a good means of marketing inferiority under a mask of breading and frying oil.

CONSERVATION — High demand and price for fish meal has diverted Scandinavian sardines away from the canneries to a degree alarming to the canned fish trade.

Norway, Denmark and Sweden have become disturbed at the growing intensity of fishing competition, and its threat of possible depletion.

They recently met to discuss the possibilities of an international treaty to regulate the activities of their fleets, somewhat after the pattern of ocean fisheries conservation treaties pioneered by the United States and Canada.

Thus the device developed in the Halibut and Sockeye salmon enterprises finds use throughout the world.

OPPORTUNITY MISSED? British importers believe that United States and Canadian producers of frozen fish are missing a bet by not driving actively for consideration under MSA—Mutual Security Act—under which imports are authorized on a token basis, free from the limitations of import permits.

The American poultry, dried fruits and canned fruit industries have found worthwhile business through MSA.

One word more: The British fish trade is keenly concerned with the chaotic possibilities and danger to the fisheries of the current outbreak of extraterritorial claims and declarations.

A Guest Report on Current Events

By O. Nerka and
O. Gorbusha

A Peruvian fishing company has queried the International Pacific Salmon Fisheries Commission, outlining its plan to send a mothership and catcher boats to fish for salmon off the Columbia river, Strait of Juan de Fuca and British Columbia. It is understood that the Peruvians asked some pertinent questions as to the attitude of the Commission towards such fishing off these shores, landing for provisions and supplies, etc. It is also understood that the American and Canadian sections of the Commission have already referred this matter to Washington and Ottawa.

Early in May Governor Arthur B. Langlie of Washington, in a letter to Secretary of State Dulles, pressed for vigorous rejection of the proposed infringement of off-shore salmon-fishing waters. He recommended that the Secretary reassert the principle of abstention as set forth in the International North Pacific Fisheries Treaty.

According to the Press, Mr. G. R. Clark, Deputy Minister of Fisheries, voiced the opinion in Ottawa that the Peruvians would not be able to get provisions or fuel in Canadian ports for lack of any Canada-Peruvian treaty granting such right. The mothership which the Peruvians plan to use is a 500-ton freezership. Because of the importance of the precedent involved in such a proposed operation, the response of the American and Canadian governments will be watched with the greatest interest and considerable concern.

ALASKA LABOR

Labor negotiations with the various unions representing employees of the Alaska salmon canneries have been proceeding in about the usual fashion. Contracts have been signed between the Alaska Fishermen's Union and Alaska Salmon Industry, Inc., covering tendermen, trapmen, beachmen, etc., for all districts of Alaska except Bristol Bay. The terms of settlement was about 5½% increase across the board on wages, lay and overtime.

Negotiations with other unions and Alaska Salmon Industry, Inc., including the Machinists, Carpenters, Non-Resident Cannery Workers and Radio Operators are in progress and it is anticipated these negotiations will be concluded and contracts signed in the near future.

Negotiations with Alaska Fishermen's Union for Bristol Bay where the season opens on June 25th commenced the second week in May. Preliminary meetings with the Bering Sea Fishermen and resident cannery workers union have already commenced and will be concluded in Bristol Bay. Negotiations with other Alaska resident unions will be conducted in Alaska.

There has been no delay in dispatch; crews and pre-season work is well under way in the districts which are to open first.

PROPOSED LEGISLATION

The question of reorganization of Federal fisheries activities is becoming even more confused as additional bills along this line are introduced in the Senate and House. Senators Kennedy, Saltonstall and Payne introduced S.B. 3694, which would create a fisheries division in the Department of the Interior, to be headed by a new Assistant Secretary of the Interior, and would separate wildlife activities by setting up a new Wildlife Service. This bill would provide for an Advisory Committee of eleven representative members from the American fishing industry.

JAPANESE EXPEDITION

On April 28th 300 Japanese fishing vessels are reported to have sailed, apparently for waters South of the Aleutians which have not been claimed under control of Russia on the west northeast of the 175 degree line established by the Tri-partite Fishing Treaty. This fishing fleet is understood to consist of 11 motherships and a large number of fishing boats

In the meantime a Japanese delegation under Mr. Kondo, Minister of Agriculture & Fisheries, is meeting in Moscow with the Russians to explore possibilities of modifying the strict regulations which the Soviets have announced they expect to impose on the Japanese during the period May 15 to September 15.

As shown in a chart in the May issue of the *Pacific Fisherman*, the area east of the Soviet fishing control line of about 170 degrees east longitude, was not too productive of salmon, compared with the areas in North Pacific and the Okhotsk S which the Russians now propose close to Japanese operations. If so compromise is worked out betwe the Russians and the Japanese, Japanese expeditions in the North cific would be in a position to m quickly westward into a more p ductive area, if permitted to do

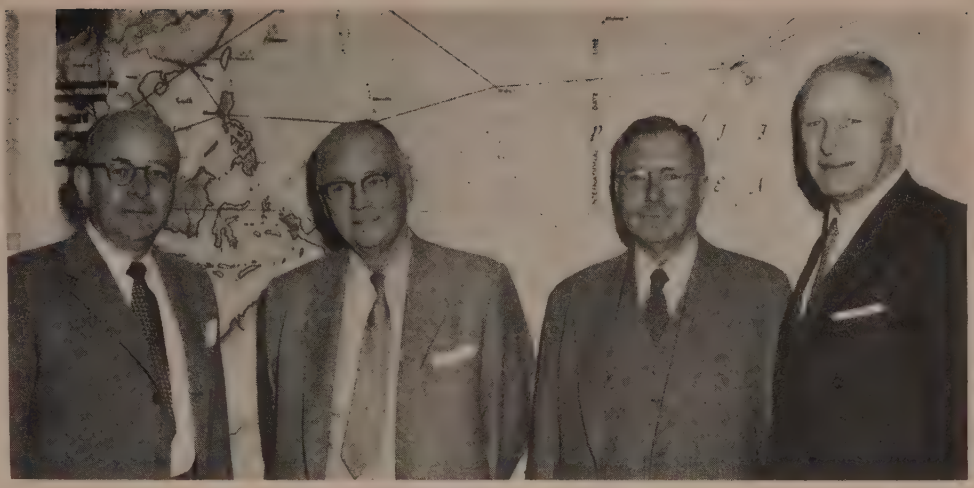
DIVERSION OF COLUMBIA

Following the round-table disc sion of fishery problems on the h seas, held under the auspices of American Society of Internatio Law, April 19, at the University Washington, the American and Ca dian views were discussed regard the proposed diversion of Colum River waters.

The Canadian position was cussed by Mr. L. J. Ladner of Vancouver, B. C., Bar; the Ameri position being outlined by Mr. Elw Hutcheson, a Yakima attorney. Ladner presented strong argum from the Canadian point of view the economic and other advantages diverting some of the waters of Columbia River into the Fraser Ri system and building of many po dams on that system. Mr. Hutche took an equally strong position aga diversion of any waters in Can from the Columbia River.

Mr. Ladner argued that under treaty between the United States Canada implemented by various c decisions, it would be possible for C ada to divert some of the river wa for power development and other in British Columbia. The popula of British Columbia is growing ra ly; industrialization of that Provinc moving fast and the need for a tional power in the next decade be substantial.

Conversely, Mr. Hutcheson arg that it would be a violation of treaty, and not in accordance court decisions, to divert Colun River waters from use in the Ur States, because of the great need power development in Washington Oregon, irrigation developments, that the work of the Sockeye Com sion in rehabilitating salmon run the Fraser River would be destr by such diversion, and the Amer runs on the Columbia would be pl in jeopardy.



erican Section, Internanal North Pacific Fisheries mmission, pictured at Sele at the time of the rent section meeting just or to the dispatch of the st units of the 1956 oceanic mon and King crab rearch program. From the t, Milton E. Brooding, secn chairman; J. H. Clawson, chorage; Edward W. Al, international commission airman; John L. Farley, dictor, U. S. Fish and Wildlife Service.

J.K. to Repeat 1955's Salmon Order, B.C. Hopes

Salmon packers' major problem in itish Columbia this Spring has been shortage of supplies in all grades.

The industry will probably face the w production season with virtually unsold surplus from the 1955 pack. ertainly there will be no *Chum*, beuse supplies of that grade were exusted early this year as a result of e unexpectedly light pack.

Experienced packers say that the 955 failure of the *Chum* catch was e first in their memory. It was exained away in some quarters by an cess of predators and unusually unvorable ocean feeding conditions; no ne knows for sure. But the industry as made painfully aware of the light ack—only 125,000 cases, compared ith the ten-year average of more than 00,000 cases.

There was some *Sockeye* available, ut that was fast running out, too, and was obvious that stocks would not e greatly augmented during the comg season, with the Skeena under rict regulations and the Fraser exected to yield light returns on *Sockye*.

Without much definite data to go n, packers were hopeful that the nited Kingdom's purchases for the 956-57 period in the North Amerian canned salmon market would be oughly equivalent to those of a year go, calling for an expenditure of some 7,- to $8,000,000. That would acount for about 150,000 full cases dided between Canada and the United tates. Last year British Columbia salon canners sold about 130,000 cases to the United Kingdom and the U. S. about 25,000 cases. The volume will depend a good deal, of course, on the grade and price.

Sidney Levine, of the British Board of Trade's department for purchases in Canada, was in Vancouver recently and discussed the salmon situation with prominent packers, including R. T. Hager, president of Canadian Fishing Co.; John M. Buchanan, president of B. C. Packers; R. Bell-Irving, president of Anglo-B. C. Packing Co.; J. S. Eckman, formerly with Canadian Fishing Co. and now head of Vancouver's metropolitan industrial planning commission; H. Norman Hyland, general sales manager of B. C. Packers, and Vancouver Board of Trade leaders. Cliff Powell, Montreal food broker who was formerly with B. C. Packers and has been closely associated with the sterling-dollar organization in Canada, was also present.

News reached the industry that the United Kingdom had issued the second half of the licenses for importation of Japanese canned salmon from the 1955 pack, this representing about $12,000,000 altogether. This is in addition, of course, to the Russian quota amounting to about $3,000,000, which was partly for crab as well as salmon and a part of an exchange deal for British herring.

Heavy Spawning Climaxes Record B. C. Herring Year

British Columbia's herring industry has reason for satisfaction on at least two major counts this year: 1. The biggest catch ever recorded—253,396 tons—was made by the fishing fleet between mid-November and the season's official end, March 8; 2. Spawning has been successful off the west coast of Vancouver Island, allaying anxiety regarding stocks of herring in that area.

The most bountiful area was in the waters off Queen Charlotte Islands, where a fleet of 60 seiners and several packers battled rough seas and freezing weather to bring in a catch of 92,657 tons in a region not restricted by quotas. Most of this harvest was in the vicinity of Huxley Island, near the southern tip of the Queen Charlottes, where only small quantities had previously been caught—a happy development in itself.

The total catch was more than three times the quantity of any previous catch from this area and was substantially greater than the yield of any other British Columbia herring area at any time.

Routine herring spawning surveys carried out by fisheries officers off the west coast of Vancouver Island indicate heavier than average spawning will be recorded when all the returns are tabulated and appraised.

A total of 4,391,230 imperial gallons of herring oil was produced from the bumper catch and 47,314 tons of herring meal. No herring was canned or dry salted.

British Columbians in Ottawa—Here are some of the Pacific coast delegates to the recent annual meeting of the Fisheries Council of Canada, held in Ottawa. Left to right, front row—T. H. Sorensen, Fishermen's Co-operative Federation; O. J. McDonald, Queen Charlotte Fisheries and B. C. vice president of the association; J. N. Hyland, vice president, B. C. Packers, and retiring president of the association; E. L. Harrison, vice president, B. C. Packers; standing—Frank Millerd, Jr., Francis Millerd Packing Co.; Borden Smith, Canadian Fishing Co.; Richard Nelson, president, Nelson Bros. Fisheries; George Alexander, deputy minister of fisheries for British Columbia; Peter Van Shellenberg, B. C. Packers, and Malcolm McCallum, McCallum Sales, Ltd.

Canadian Packers Push For Higher Fish Sales

• A promotional program designed to stimulate sales of the industry's products in Canada was unanimously approved by 200 delegates to the eleventh annual meeting of the Fisheries Council of Canada, held in Ottawa April 9-11.

Last year Canadian fishermen initiated a public relations program aimed at creating greater interest in the industry and increasing consumption of fish. This program has paid off, but it was decided to organize an even more aggressive campaign this year.

It was pointed out by speakers that the industry has a stake in a fiercely competitive market for the consumer food dollar, and that its prospects of winning a greater share of it should be improved by the important steps taken by packers and processors towards quality control and standardization.

• The new president of the Council is a Nova Scotian — Willoughby R. Ritcey, who succeeded H. Norman Hyland, vice president and general sales manager of B. C. Packers, Vancouver. A new vice president representing the Pacific coast is O. J. McDonald, Queen Charlotte Fisheries. Directors include Roger T. Hager, president of Canadian Fishing Co.; Dr. R. Elsey, B. C. Packers; K. J. Harding, Fishermen's Co-operative Federation; F. M. Millerd, Jr., Francis Millerd Packing Co.; Richard Nelson, president, Nelson Bros. Fisheries; Robert Payne, general manager, J. H. Todd & Sons, and H. B. Smith, all of British Columbia.

• A feature of the session was the interrogation by delegates of two federal government experts who have had much to do with international agreements and scientific research affecting Canada's fisheries—George Clark, deputy minister of fisheries at Ottawa, and Dr. D. L. Kask, chairman of the Fisheries Research Board of Canada.

Replying to a question about the limit on killing Alaska fur seals on the Pribilof Islands, Mr. Clark said that the controls had been so successful in the past in rebuilding the seal herds that there was some thought that they had now become a little too large and responsible for the din tion of certain stocks of salmo was planned, he indicated, to inc the killing quota this year.

Recommendation that Canada fine her territorial limits as the tance 12 miles beyond a bas drawn from headland to headlan stead of the existing limit three offshore was made in a unanim passed resolution.

The three-mile limit is a hand- from the policy traditionally foll by the British government and th tance is supposed to have been inally determined by the range coastal defense cannon. Fisheries ister James Sinclair had aske Council to express its opinion base for future international di sions.

Other resolutions called for: 1 crease in depreciation rates fo purposes applicable to fishing ve fishing gear and plants in the dian industry to allow for the capital expenditures to be writte in a shorter period; 2. A solutio the sterling exchange problem an laxation of U. S. tariff rates, wit object of increasing trade betwee two countries and world trade ge ly; 3. Continued discussion wit U. S. regarding study of the Pin mon fishery in the Straits of Ju Fuca, Puget Sound and the F River for the purpose of bri these fish under joint internat management for conservation poses as in the case of Sockey Permission to import fishing v of a length of 65 feet and ov that the industry can replace its lete vessels more economically.

Fisheries Minister Sinclair, refe to the forthcoming visit to Cana Soviet Russian fisheries leaders, that he was looking forward to s ing them how fishermen in a d cratic country such as Canada "I think it will be an eye-opene them," he said.

• In reviewing the industry's ac and problems of the past year th tiring president, Mr. Hyland, dep the application of a group of groundfish fillet producers to ha subject of imports from Canada reviewed by the U. S. Tariff Co sion—for the third time in five All Canadian producers shou seriously concerned, he said, po out that Canadians buy from the over ten times as much per cap they sell to that market. He exp gratification at the co-operation evidenced by fish and power int in dealing with the problem of utilization in British Columbia.

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How Van Camp Uses Tuna Viscer

To Fortify Condensed Solubles

Tuna cannery waste is picked up from bin, left, and elevated to the feed screw of the California, upper right.

California cooker, top center, discharges at its far end into the 12½-ton California Press in the middle center.

Presscake feeds into the 40' California low-temperature, indirect heat dryer, whose operation is being watched by Roy O'Harra, by-products plant superintendent.

• Lassen process for the ma
ture of condensed fish solubl
developed in Southern Califor
Dr. Sven Lassen, who is now r
consultant for Van Camp Sea
Company, Inc., of Terminal
Since the development of thi
duct, Van Camp Laboratories h
neered in its production and
all types of poultry and animal

Condensed fish solubles pr
by the patented Lassen process
water - soluble, vitamin - rich

produced from defatted fish
water which has been chem
treated and vacuum concentra
50% total solids. Before the
of condensed fish solubles, fish
water was discarded after th
tained oil had been removed.

In relation to the canning o
fish solubles is derived from (
liquid yielded in pre-cooking
raw tuna (cooker juice); fro
(2) centrifugation of presswa
covered in a reduction plant p
ing fish meal and from tuna w
Because the manufacture of
densed fish solubles is so inte
with the production of fish me
fish oil, it is impractical to d
only one phase of a plant pro
all three products.

• At Van Camp plant in San
which packs only tuna (Van C
plant at Terminal Island produc
products from sardines and ma
as well as tuna), tuna scrap fr
packing line is carried by floor
conveyor and pick-up conveyor
by-products section. Fish scrap

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m elevator to chute, to screw con-
or again, where water is applied
ground level to prevent plugging
the bucket chain conveyor.
The tuna scrap then passes through
continuous pre-cooker, utilizing
am to cook out the oil. It is usually
d 10 to 20 minutes under steam
ssure. Processing of the scrap,
ich is now approaching meal stage,
continued with a California Press
nufacturing Co. continuous screw
ss of 12½-ton hourly capacity.

Dry meal is ground by the Enterprise vertical mill, on the left; while the oil is separated from the stickwater by the Sharples centrifuge. Note meal warehoused in paper sacks on the right.

Here fresh tuna viscera is finely ground before being mixed with the acidificated stickwater, where it undergoes controlled enzymatic hydrolysis, fortifying the nutritional values of the condensed solubles.

Press liquor flows from the screw
ss into a sump and is pumped to
rotary fine screen for removal of
e meal particles before the press-
ter is pumped to a Sharples centri-
ge, where the oil is separated and
e defatted stickwater is pumped to
e solubles department for treat-
nt.
At the San Diego Van Camp plant,
e press cake and solids removed
the foots screen are passed through
hammermill or hasher and are
ew conveyed into the dryer. This
yer is a 40′ rotary kiln, an indirect
at, low-temperature, thermostati-
lly controlled unit.
Dry meal is ground by an Enter-
ise disintegrator to pass a 3/16″
een. Fines are collected in a cy-
ne and fed into the meal conveyor.
e ground meal in its entirety is
en carried by pneumatic duct to
e warehouse for sacking and stor-
e.
The tuna oil from the by-product
eration of the San Diego plant is
ipped from two storage tanks to

From the wood stave storage and blending tanks, left, the stickwater passes through a heat exchanger, near right, and then is condensed in the triple-effect Swenson evaporators in the center background.

e Van Camp Terminal Island plant
further refining.

In the production of condensed
h solubles where "cooker juice"
m the tuna cookers (the liquid
ulting from the pre-cooking of
a) is pumped to the solubles divi-
n and is well mixed there with de-fatted stickwater from the reduction plant.

For holding cooker juice and stickwater there are five redwood tanks of 12,000 gals. each. In three of the tanks a slight pH adjustment with acid is made on a formula patented under the "Lassen process". This treatment coagulates excess protein and prevents spoilage of both the dilute raw material and the finished product. Separation of coagulated protein floc in the treated stickwater is by basket centrifuge. The recovered solids are returned to the fish meal department and added to the press cake.

Treated stickwater is pumped

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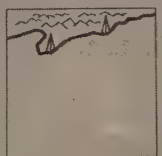

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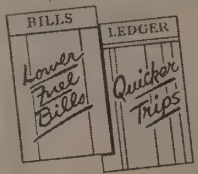

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Saves You Effort

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h a heat exchanger and then
trated in triple-effect Swenson
ators until hydrometer read-
now solids content of the pro-
which has a specific gravity of
imately 1.2, at the 50 percent,
is the established standard in
h by-products industry.

ore the acidulated stickwater is
ted to concentration, it is forti-
ith ground tuna viscera. This
aterial, which is removed from
na before they are pre-cooked,
ns the vitamin-rich liver and
gestive enzymes.

visceral material is ground
tely in the fish room and then
to the stickwater. In this way,
rolled enzymatic hydrolysis of
scera takes place and fortifies
nished product with additional
ns and growth factors.

hly important in the processing
condensed fish solubles is the
rature at which the stickwater
during acidification. Also im-
t in the manufacture of a high
product is the laboratory test-
an electronic pH meter, which
res the acidity; the lower the
e higher is the acidity.

a part of the Van Camp pro-
a rigid quality control program
orced. Not only are tests run
ually at different stages in the
s by the San Diego laboratory,
mples of daily production and
shipments are tested in the
y Control laboratory at Termi-
land. Condensed fish solubles
lyzed for solids, viscosity, ash,
itamins, protein, fat and amino
and extensive blending is car-
ut before shipment in order to
a uniform finished product.
neal is tested for protein, mois-
fat, ash, particle size, digesti-
and protein quality.

s interesting to note that the
nery manufacturing solubles at
n Camp San Diego plant works
13 hours a day. Seven steam
, two electric pumps and four
m pumps are used in the pro-
g.

O'Harra, in charge of the by-
cts operation of the San Diego
has been with Van Camps for
ars; 14 years in by-products.

ld E. Crowther rns to FAWS

old E. (Skip) Crowther rejoined
sh and Wildlife Service this
after an absence of nearly three
In his new position, Mr. Crow-
ill act as coordinator of the
nstall-Kennedy projects for the
n of Commercial Fisheries.

Research Developments Studied at Long Beach

The third meeting of the American Fisheries Advisory Committee, working on fishery research and development provided for by $3,000,000 per year under the Saltonstall-Kennedy Act, was held May 1 and 2 in Long Beach, Calif.

Only the May 1 morning meeting was open to the press. Public and the industry turnout was good, including some executives of fish canneries, unions; and Charles Carry and E. L. Morris of the California Fish Canners Association, Harold Cary and Dr. W. M. Chapman of the American Tunaboat Association, Mason Case and Matt Dragich of the Fishermen's Cooperative Association; Pete Repovich of the California Commercial Fishermen's Association.

At the open session, Assistant Secretary of the Interior Wesley A. D'Ewart presided, and Dr. Lionel Walford gave a large part of the verbal report of the activities of the Fish and Wildlife Service's review of what has been accomplished in the fiscal year of 1955.

From the West Coast viewpoint, members of the advisory committee in attendance at the meeting were Lawrence Calvert, president of the San Juan Fishing and Packing Company of Seattle; Mark L. Edmunds of Garibaldi, Oregon; Donald P. Loker, vice president of Star-Kist Foods, Inc., Terminal Island; Arthur M. Mendonca, president of F. E. Booth, Inc., San Francisco; Thomas F. Sandoz, president of Columbia River Packers Association, Astoria.

As a reporter of Pacific Coast fisheries, *Pacific Fisherman* in the short hours of the open meeting concentrated on questions-and-answers involving the major species of Pacific Coast fish covered by research provided-for by the Saltonstall-Kennedy Act funds.

Fiscal year 1956 allocations for Pacific Coast fisheries include salmon and related species; financial contributions to the Pacific sardine, anchovy and mackerel research, a program that includes several fishery research organizations;

Research on the Pacific Ocean to assemble data on climate and oceanography in order to determine relationship between environment and world-wide fluctuations of the commercially valuable species of fishes.

The amount of money allocated for research, working with other fishery organizations, on Albacore, to define location of stocks in waters north of Hawaii, has been increased over 1955.

For investigation of the possibility of substitutes for live bait for tuna fishing, $35,000 has been designated. It is understood this investigation may be conducted by the Fish and Wildlife Service office with offices at Scripps Institution of Oceanography, La Jolla.

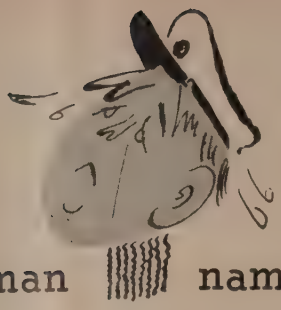
Implementation of the study of improved methods of freezing tuna at sea will no doubt be conducted under Dr. Seven Lassen's direction at the Philip R. Park Co., San Pedro. The Saltonstall-Kennedy funds have provided $10,000 for this; and in addition the California Fish Canners Association are providing money for a similar study, with John Rawlings in charge.

Making comparisons on the amount of funds allocated to different fisheries in the United States for the fiscal year of 1956, Pacific Oceanic Fisheries Investigations of tuna received the largest amount, as far as the Pacific Coast is concerned; salmon and related species comes second.

At the open meeting, Dr. Walford stated that "shrimp was the most valuable fishery resource in America." And he indicated that the studies made possible by the Saltonstall-Kennedy funds were concentrating on brown shrimp. He also pointed out that research on menhaden, similar to the Pacific sardine in habits, might lead to further knowledge of why there are fluctuations in the availability of the sardine resource for Pacific fishermen.

As far as the national fisheries are concerned, relating to the expenditure of Saltonstall-Kennedy funds, tuna, Atlantic groundfish and shrimp absorbed the major portion of financial effort during the period in which the allocation has been in operation.

Opposed to this summary are these facts: regular Fish and Wildlife Service research has concentrated on salmon, with tuna and sardines running a close second and third. We are referring in this statement only to Pacific Coast species, and are basing our facts on printed material from the Fish and Wildlife Service.



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PACIFIC FISHERMAN'S NEWS

JUNE 1956

alibut Fishermen Reject Strike

alibut fishermen decided not to e for higher prices this season, though a large British Columbia Alaska group had favored such n.

uring early May preparations were r way for the opening of the 1956 ut season under extremely con- d conditions. By that time em- is by the fishermen's groups had ed from a demand for a minimum to a plan for a "curtailment" ram. The minimum price pro- was abandoned after fishermen Seattle had failed to support the e by a sufficient majority. Short- ter this vote was taken, the head- quarters of the movement at Vancouver announced abandonment of the program and the substitution of a plan calling for a system of tie-ups of the fleet after each trip, a proposal to curtail the catch by spreading fishing operations over a longer period.

The suggestion was that one and two-man boats would fish for two weeks after reaching the grounds, then return to camp with their catches and tie up for a week, then fish seven days and tie up seven alternately through the balance of the season. Vessels with three men and more in the camp fleet were to observe rules followed by the regular vessels.

ew Sockeye Regulations dmittedly a Compromise

new set of regulations designed neet the unusual conditions ex- ed to prevail in the Fraser River keye fishery this year was finally oved by the International Pacific non Fisheries Commission at a ting in Bellingham.

he final plan represents a com- nise resulting from the Canadian rnment's objection to the proposal nally made by the Commission the subsequent claim of Canadian etters that the "new" plan was riminatory.

Members of the Commission admit that the program ultimately adopted is little more than a makeshift and that revision of the treaty under which it operates will be necessary to insure provision of sufficient authority to carry out the long-range conservation and management program needed to protect the resource.

For instance, under the treaty as it stands one area in Canadian waters cannot be closed unless similar closure applies to other areas simultaneously.

The Bellingham meeting decided that all high seas and territorial waters will be closed to net fishing from June 28 to August 5 and that only trolling will be permitted in that area during that period.

Regulations affecting the Canadian fishermen: Seine and gillnet fleet will be allowed three days fishing each week, 5 a.m. Tuesday until 5 a.m. Friday, from June 25 to August 10 in waters east of Bonilla Point to Tatoosh Island. The Canadian net fleet will fish two days a week, 7 a.m. Tuesday to 7 a.m. Thursday, from August 11 to September 13. From September 14 to September 19 all Canadian convention waters will be closed, and after that date the Commission will relinquish its regulatory powers.

For U. S. fishermen: In convention waters east of Bonilla Point to Tatoosh Island—open four days a week from June 25 to August 10 — five days a week from August 11 to September 3.

Addressing the annual convention of the United Fishermen and Allied Workers Union, Chief Supervisor of Fisheries A. J. Whitmore echoed the earlier assertions of Loyd Royal, director of the Commission, regarding the problem of growing gear efficiency and fishing intensity.

"We are going to have to get tough to make sure we get our proper spawning escapement," warned Mr. Whitmore.

Wandering Chinook

A Chinook salmon was taken aboard a sportfishing boat off Catalina Island late in April. The boat was the *Star Angler* and the fish measured 35" long and weighed-in at 22 lbs.

egon Stream provement

I. T. Hoy, Oregon State Fisheries ctor, says more than 200 miles of vning area has been made acces- by the Oregon Fisheries Com- ion's stream improvement work ng the past year, which includes truction of 9 fishways (not in- ing a number installed by other ests or agencies), and removal of y log jams and other obstructions.

Astoria Gillnetter Launched

One of the largest gillnet boats to be launched in recent years slipped down the ways of the Columbia Boat Building company recently. The boat, designed by Matt Tolonen for John Tarabochia, is 28' in length with an 8', 4" beam and is powered by a 135 hp. Chrysler Crown Special gasoline engine, sold and installed by Ed Olson, the White Motor Company, Astoria, Oregon.

Calif. Summer Crab Fishing Is Eliminated

Summer season for crab fishing on the northern California coast is eliminated by a new law effective this year.

On the north coast, Humboldt and Del Norte counties, the season runs from Dec. 15 to June 30; where formerly it extended to July 31.

For the balance of the state the season opens Nov. 15 and closes May 31, shortened by two months.

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Here's the "Independence," one of the newest steel tuna clippers to appear on the West Coast fishing scene. Built by National Steel and Shipbuilding Corporation, San Diego, the "Independence" and her sister ship "Concho" represent a million dollars worth of confidence in the Southern California tuna industry. . . .

And plenty of confidence in Murphy Diesel is represented by two Model 24 Murphy Diesels on each clipper for auxiliary power to handle vital electric requirements for refrigeration, lighting, gear, etc. on long cruises.

With Murphy Diesel on board, you can be sure of getting the most for your money with the least amount of trouble. Your dollar buys more at Murphy—more operating economy, more dependable performance, longer trouble-free engine life.

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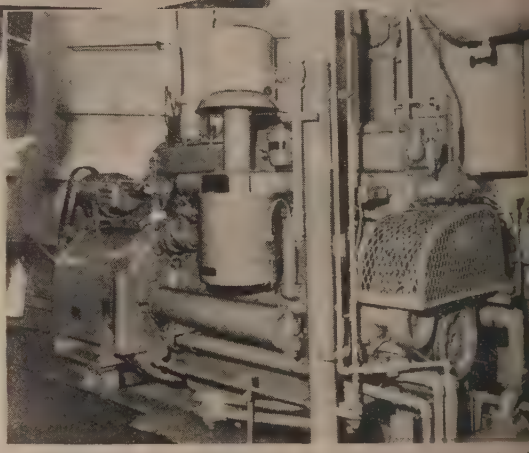

One of the two Murphy Diesel Model 24 Auxiliaries installed on the "Independence."

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SAN DIEGO BITE-SIZE ITEMS

FISHING for salmon, until the Albacore season in Baja California and Southern California begins are *Sea Bee, Harold J. Norfjord, Ronnie* and *Blue Skies*, boats which have been based in San Diego and now will troll off Oregon and Washington . . . *St. Rita* brought to port an "unusual" halibut, brown on top and bottom . . . Donald Corona is the fishing boat's skipper . . . A day before the vessel had taken a 7-pound salmon, rare in Southern California waters . . .

SPICEWOOD, tuna mothership, was in San Diego port in late April to unload tuna from Peru . . . she delivers to Westgate-California . . . tuna clippers delivering in late April included *Benita, Lucy Elena, Mary S., White Sea, Notre Dame* and *Kitty Hawk* . . . Also in port, unloading, in April were the *Concho*, new National Steel tuna clipper; *Belle of Portugal, Portuguese* and the *Sun-Victoria* . . . Ownership of the *Sun Pacific* has been transferred from Antonio Tavares to Janous Marks, port captain of Westgate-California's fleet in San Diego . . . *New Hope* of San Diego is reported transferred to the Italian flag . . . Owner Donald L. Byrd . . .

CONTE Di SAVOIA has been transferred from National Marine Terminal Inc. to Tunacraft, Inc., Wilmington, Del. . . Joseph G. Coelho, 82, retired fisherman, died at his Point Loma home. He had lived in San Diego for 28 years. . . "The Naked Sea," featuring the voyage of the *Navigator*, Joaquin Qualin, had its showing in February in San Diego, home port of the clipper . . . the film has a musical background of harmonica and guitar and was filmed by Allen H. Miner, former combat photographer.

WESTPORT, the sixth tuna clipper from National Steel, was launched toward the last of March . . . Staff members from National Steel, Milton Fillius, John Murphy and W. E. Hirtensteiner attended the meeting in February in Los Angeles of the Governor's Committee on Shipbuilding and Repair. . . The *Concho* has completed her first tuna voyage. . . She was launched late in 1955 . . . her sistership *Missouri* has sailed on her first voyage. . . The chef of the *Saratoga* was recently featured in Star-Kist's magazine, "Gill and Quill." He is Oscar Pohle and has spent three years on the *South Seas* and two on the *Constitution*. . . Manuel J. Luz is skipper of the *Saratoga*, fishing for Star-Kist and built in Tacoma. He was born in Massachusetts and now lives in San Diego. . . Official investigation by the Coast Guard of the sinking of the *Sunset* off Acapulco has been completed, with the cause of the sinking apparently undetermined. . . *Coimbra* and *Constitution* have both completed fast early 1956 trips to the tuna grounds.

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ARNE STROM, *Owner*

8 Fraser Sockeye rospects Sparkle

Prospect of a Sockeye run in 1958 excess of the record (since 1913) ablished in 1954 was indicated by extremely heavy show of down-eam migrants in the Fraser River stem (South Thompson) from Little uswap Lake to Kamloops, 35 miles tant.

Loyd Royal, director of the International Pacific Fisheries Commission, ported the situation as "almost incredibly better" than in 1952, and Ross ewart, field biologist for the Commission at Shuswap who is noted for odesty in his statements, described e migration as "absolutely fantastic."

Members of the Commission staff rveying the area said the young salon, about 2¾ inches long, were so merous that they resembled a hailrm as they broke the flat calm on e waters according to their custoary habit at that age, and the spe-le extended from bank to bank over 000 feet.

At Cultus Lake more than 1,500,-0 migrants were estimated, comred with 650,000 and 450,000 in e two previous years.

In view of the favorable signs in e Adams River area it would not surprising if 1958 would see a run more than 12,000,000 Sockeye, the uivalent of 1,000,000 cases.

rea Licensing tricter Than Expected

When the area licensing regulations r the 1956 Alaska Fishing Regulaons were finally issued, they conined a surprise that is causing conderable discussion, and threats exist challenge in court.

As set forth in the regulations, conol is exercised of the individual fishman's activities as well as of the fishg boats being licensed. This appears be a change in policy and is claimed some to be in violation of the White ct of 1924. In any case the enforceent of these area licensing regulaons will have serious effects in many hing districts in Alaska. In some oups, opposition to the area licensing gulations appears to be strong.

harlie Clarke Heads ancouver Association

Capt. Charlie Clarke, skipper of *estern Producer,* was elected presient of the Fishing Vessel Owners Asciation in Vancouver, B. C., recent-. George A. Brajcich of the *Miss eorgina* was elected vice president. New directors are: E. J. Arnet, *Koak,* representing the halibutters; A. Radil, *Pacific Raider,* salmon; R. O. Iverson, *Brooks Bay,* herring; J. Gregory, *Tatchu,* trawl; M. J. O'Brien, *Linda,* tender; Norman Fiddler, *Dollina II,* membership; H. Henriksen, *Ocean Pride,* publicity; K. Larson, *Western Girl,* government.

Mello Boy, Newport Beach purse seiner, skippered by Arthur Mello, uses Livlong, all-synthetic net, purchased from Wm. Hutchison & Associates, San Pedro.

Eureka Fishing Activities

More individual deliveries of fish were made in the Eureka area during 1955 than at any other port in California, according to Captain Walter Gray of the Fish and Game Department.

A total of 19,825 individual deliveries were recorded. Captain Gray explained that other ports may have had greater poundage, but not more deliveries.

Crab fishing in and around Humboldt Bay is now described by water front officials as "going to the dogs." Some boats are still fishing for them, and a few are being taken, but the number is growing smaller and smaller. Crab fishermen, however, have gained a cent a pound increase in the price, which is now 16 cents.

A bill to authorize construction of the Sandy Prairie flood control project on the Eel River near Fortuna has been introduced in Congress. Sandy Prairie lies south and west of Fortuna and has been gnawed away by the waters of the Eel River for a long time.

All-Synthetic Net Handled by San Pedro Firm

Wm. Hutchison & Associates, San Pedro, have delivered an all-synthetic net to a Newport Beach purse seiner, the *Mello Boy,* skippered by Arthur Mello. Ray Stewart, in charge of netting sales for the Hutchison firm, states that the net is hung as a purse seine, and that the webbing carries the trademark of Livlong.

The *Mello Boy* was designed and constructed by Del Davis, who is now completing a planked hull boat for Burke Crofton of San Diego.

Dan Palmiter, superintendent of engine sales for Shepherd Marine, tells *Pacific Fisherman* that the company has sold recently "Caterpillar" engines to West Coast of Mexico ports for powering of shrimp trawlers.

To Guaymas were shipped three D-342 diesels, two with 3:1 Twin Disc reduction gears and one with a 2:1 reduction.

Also to Guaymas was shipped a "Cat" D-8800, 2:1 reduction, Twin Disc, and a "Cat" 1-3300. To Puerto Penasco, another shrimp fishing port on the West Coast of Mexico, was shipped a "Cat" 318, 3:1 Twin Disc reduction.

Terry Caramanas Injured In Undersea Dive

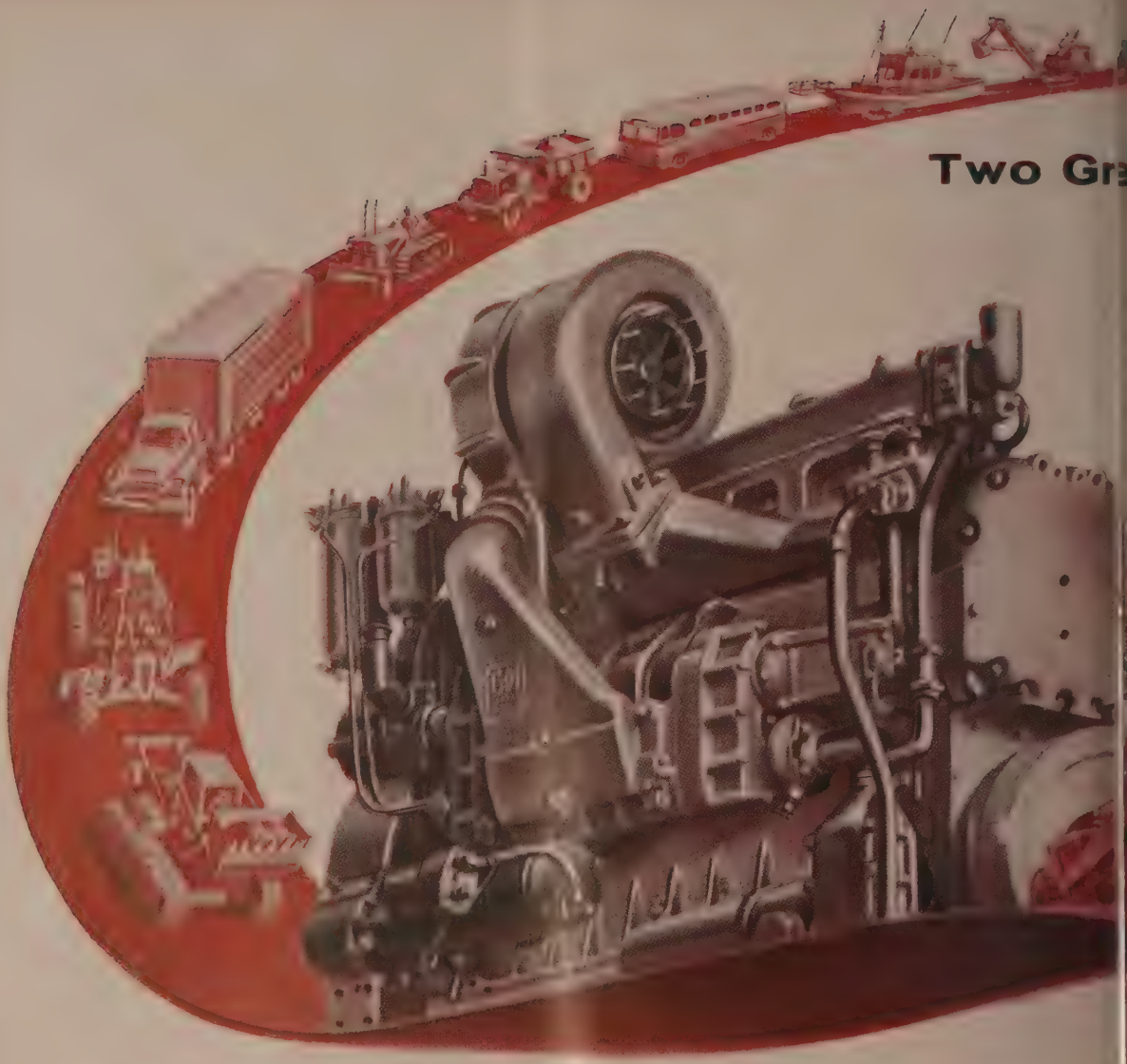
Terry S. Caramanas, 24, an abalone diver of Los Angeles, in early April was under treatment in San Diego for injuries suffered when he stepped off a ledge 35 feet undersea and fell, with the weight of his diver's outfit pulling him down to about 55 feet. He was diving from the *Gloria H.,* and was rescued by one of the crew members.

Coast Fisherman Dies

Andrew Vilicich of San Pedro, sharing ownership in the purse seiners *California, Marsha Ann,* and the freezership *Alaska Reefer,* died in late April. He was 65 and had been one of the most active fishing boat operators in the Seattle and San Pedro fleets.

He was born in Yugoslavia and from there came to Canada, then to Puget Sound, and then made his home in San Pedro.

He has two sons, Steve, who has sailed with his father on many a fishing voyage; and John, who operates a commercial marine agency in San Pedro.



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Increased Power—Decreased Fuel

Here's exciting news for power users—great new 4- and 6-cylinder GM Detroit Diesel engines that represent another long forward step by the leader in the Diesel engine field. With this new, more efficient Detroit Diesel Turbopower you can have up to 17% more power with no increase in fuel consumption—or the same power output with fuel saving up to 15%.

Detroit Diesel engineers have Turbo-charged 2-cycle Diesels by combining an exhaust-driven turbine with the engine blower to deliver a larger supply of fresh air to the cylinders. Result: improved combustion, freer engine breathing, quieter and more efficient performance in the higher speed ranges.

Turbopower Diesels are additions to Detroit Diesel's time-proved Series 71 line, world's most widely used Diesel engines. The four-cylinder Turbopower Diesel delivers 171 H.P. at 2300 R.P.M.; the six-cylinder engine produces 280 H.P. at 2300 R.P.M.

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Men Who Have Charted the Course for Canfisco. Here are the five men who have served as presidents of Canadian Fishing Co. since its incorporation 50 years ago this Summer. Left to right: **Captain Absalom Freeman** (1905-1908); **A. L. Hager** (1908-1948); **J. S. Eckman** (1908-1950); **S. Rosenberg** (1950-1953); **R. T. Hager** (1953 —).

Half Century of Progress Celebrated by "Canfisco"

This is an important year in the life of one of the continent's biggest and most progressive producers and distributors of food fish, for it was in the early Summer of 1906 — a half century ago — that Canadian Fishing Co. was incorporated.

During the intervening years Canfisco, as the company is often referred to, has played a significant and expanding role in the commercial fisheries of British Columbia, recording steady advances under a succession of able presidents heading a loyal and aggressive organization.

Canfisco's beginnings are traceable to the 1860's when the New England Fish Co. was organized by some wholesale fish dealers then doing business in Boston who sought a means of supplying themselves with halibut from the Atlantic banks. By 1889 demand for halibut was so great that the company turned to the Pacific to augment its supply, and by 1893 it had outfitted a small freighter, the *Capilano*, to operate off the British Columbia coast.

The output was shipped east over the recently completed Canadian Pacific Railway, iced down in boxes stowed in refrigerator cars attached to passenger trains. While there were skeptics who doubted the success of this venture, ingenuity and enterprise paid off.

New England Fish Co. continued its pioneering — building specially designed halibut steamers, initiating halibut fishing in Alaska waters and building a cold storage plant in Ketchikan.

Halibut fishing in those days was done entirely from steamboats about 125 feet in length with operating crews of a dozen men, each boat carrying as many as twelve dories each fished by two men, making a total complement of 36. The mother ship proceeded to a favored fishing ground and there the dories were lowered. While the steamer moved along at half speed the dory fishermen set their gear in parallel directions and operated under sail.

One of the most successful halibut skippers of the era was Captain Absalom Freeman, who had been master of the New England Co.'s first ship. Fish were plentiful in those days, and it is recorded that Captain Freeman set a record for dory fishing, picking up 98 dory loads totaling 190,000 pounds of halibut in one working day.

After working ten years for New England Fish Co., Captain Freeman decided to go into business on his own account, in partnership with another experienced fisherman, Captain Johnson, and three Vancouver merchants. This was the origin of Canadian Fishing Co. One of its early problems was due to its dependence on other companies for selling its catch, but this was speedily solved when, in 1908, active management was assumed by A. L. Hager, who had arrived on the coast the previous year to supervise the business he had built up since 1901 in distributing West Coast salmon to Boston and New York dealers.

Under the impact of Mr. Hager's bold and imaginative leadership Canfisco speedily gained in stature, and the New England Fish Co. gradually withdrew from British Columbia, since that time depending on Canfisco f its supplies of Canadian fish. Can dian Fishing Co. rapidly developed efficient fleet, introducing the first i ternal combustion-engined boats that service, and in 1910 it built big freezing, cold storage and ice-ma ing plant in Vancouver, expanding t years later to acquire Atlin Fisher Ltd. in Prince Rupert to strengthen position in the North.

There followed a succession of velopments aimed at extending company's activities. The Buted plant was purchased in 1923, and 1945 Canfisco improved its facilit at Prince Rupert by purchasing the ficient plant of Northern Fisherme Cold Storage, Ltd., which had b built less than a decade previously

Canfisco is responsible for seve "firsts" in the industry, one of th being application of modern "qu freezing" methods; another, devel ment of quick-frozen packaged fil and slices, individually wrapped, re for consumer use.

The company did not enter the mon canning industry until 1918 wi the Home cannery was built in V couver, but that branch of the busir is now the dominant one, with C fisco operating several canneries strategic locations along the coast. was active in the herring fishery si its inception off the West coast, in the earlier days the company a large producer of Scotch-cured ring as well as dry-salted herring. latter for export to the Orient, since then, of course, the principal product of the commercial her fishery has been meal and oil.

Canfisco became a major prod of herring and pilchard products 1945 through acquisition of Noo Bamfield Co. and its associated c panies, including a fleet of sei and several canneries. During the years Canfisco built and started o ation of a vitamin oil plant. On

the company's major post-war projects was construction of a big, modern cannery at Prince Rupert to better service that area of the province.

Following the death of A. L. Hager in 1948, the presidency was assumed by J. S. Eckman, who had been vice president for several years. On the latter's retirement, S. M. Rosenberg, who had gone to Canfisco following purchase of his Nootka-Bamfield operation, became president, and when Mr. Rosenberg went to Seattle in 1953 to take charge of New England Fish Co., Roger T. Hager, a son of the man who had played such an influential role in Canfisco's first 40 years, succeeded to the top executive position.

As a part of the company's observance of its 50th anniversary a big, new packer—*Canfisco*—was launched at Sterling Shipyard with appropriate ceremony, the vessel being christened by Mrs. R. T. Hager.

Joseph Rogers to Skipper National Steel "Westport"

Joseph Rogers, not to be connected with Joe Rogers, who is the managing owner of several tuna clippers, will be captain of the new National Steel tuna clipper *Westport*, recently launched from the San Diego yard.

Mixed Signals Cause Casualty

Mistakenly using the Pt. Pinos warning beacon as a friendly light to steer by, Ray Maddox, Oceano, Calif., piled his combination boat *Curlew* on the rocks near Monterey last month.

The sorrowful skipper had given the *Curley* up as a goner until the 84th Engineer Batn. from Fort Ord moved in to take on the rescue job as a training maneuver. Army bulldozers shoved boulders out of the way, and GI's sweated to guide the boat onto a flat bed trailer. A pair of cranes lifted the *Curlew* on to a flat bed crane and she was taken to Angelo Siino's Monterey Boat Works for repairs.

The Pelican's Pouch

Things really hummed in Pelican during the month of April—many days of nice weather which permitted the fishermen to prepare their boats for "the big run"—city election—folks returned from jaunts Outside—and the big thrill when members of the Progressive Club voted to build a new hall. Charlie Raatikainen started the ball rolling for the building when he offered the use of his equipment for getting logs and the use of his sawmill for cutting them. The Forest Service gave permission for the stumpage. At a well attended meeting of the club, nearly a thousand dollars was pledged, as well as hundreds of hours of volunteer labor, and many miscellaneous donations. The goal is to have the next Christmas party in the new hall which has been named, "The United Progressive Club Hall."

Pelican had a record amount of snow the past winter, which caused considerable damage. A large slide came down from the upper roof of the cannery onto a lower section and splintered at least 20 heavy rafters. Snow was also instrumental in causing Jim Compton's numbered boat to swamp while tied to the city float.

Joe Zavodnick had his troubles too —his boat *Diana* toppled off the grid where she was up for minor repairs.

Gunner Nilsen, of Seattle, slipped on a ladder of the *Beryl E.* and broke his ankle. The *Beryl E.* had stopped in Pelican, enroute to Sand Point.

There is a "new look" in the Swanson store in Elfin Cove. Hugh Tennison completely remodeled it while Ruth and Ernie were Outside. Islands and carts enable customers to serve themselves.

HI-TEX ENAMEL
...high quality on the high seas

Fishermen like Hi-Tex Enamel because it gives the real economy of top quality. The high gloss finish resists chipping, cracking and the abrasions and knocks of hard wear. It applies easily and dries quickly. When you try it, notice how well it wears; brighter after two years than many enamels are after one.

Find out about Hi-Tex for yourself . . . ask for it at your dealer or boat yard.

LIFE PRESERVER BRAND AMP

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of Massachusetts Bay Lobstermen . . .

CHRYSLER MARINE ENGINES

Each boat—Judge, Stella and Grace (pictured)—is a Nova Scotia open-type hull built by Atkinson of Clark Harbor, Nova Scotia. Each boat makes about 15 miles per hour, powered with a Chrysler Royal Marine Engine.

Marker buoys not only mark location of traps but colors also indicate ownership. Left is Charles Ponzo, owner-skipper of **Grace,** with crewman John Hughes.

Lobster traps being prepared for setting. Frank Ternullo, left, owner-skipper of **Stella,** and crewman Charles Ternullo will bait traps and drop them so as to rest on or near rocks in 30 feet of water.

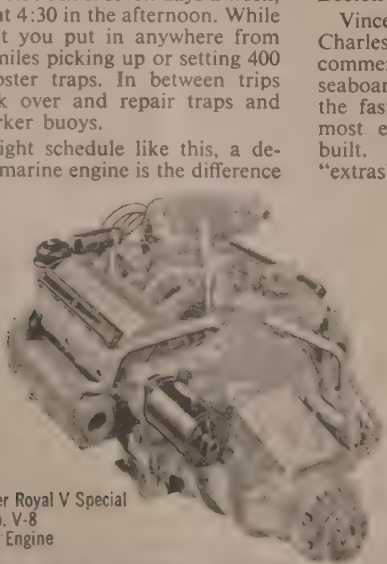
Good eating assured. Vincent Loguidice, left, owner-skipper of **Judge,** and crewman Gaetano Loguidice remove lobsters from trap. Each trip, boats bring in from 200 to 250 pounds of lobsters weighing from one to four pounds apiece.

YOU DON'T "baby" marine engines on a Massachusetts Bay lobsterman's schedule. Once the lobster season is underway, it's out at 4:30 A.M. seven days a week, back about 4:30 in the afternoon. While you're out you put in anywhere from 50 to 70 miles picking up or setting 400 or so lobster traps. In between trips you check over and repair traps and paint marker buoys.

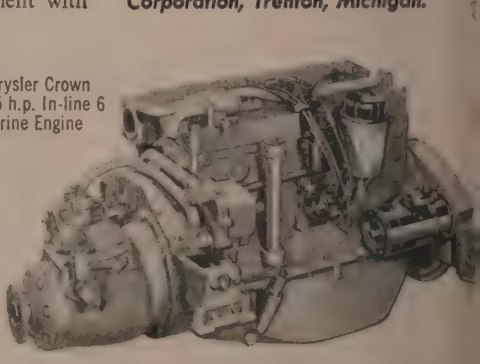
On a tight schedule like this, a dependable marine engine is the difference between success and failure. Small wonder then, Chrysler Marine Engines are so popular with lobstermen in the Boston area.

Vincent Loguidice, Frank Ternullo, Charles Ponzo and thousands of other commercial fishermen along the eastern seaboard find Chrysler Marine Engines the fastest starting, most reliable and most economical marine engine ever built. They find all the important "extras" are standard equipment with Chrysler Marine Engines. You will, to and you will also find that Chrysl Marine Engines are priced down wi the lowest.

With Chrysler you have fast servi and parts availability too becau Chrysler Marine Engine Dealers a everywhere. For full information, s the nearest dealer or write: ***Dept. 1 Marine Engine Division, Chrysl Corporation, Trenton, Michigan.***



Chrysler Royal V Special
150 h.p. V-8
Marine Engine



Chrysler Crown
125 h.p. In-line 6
Marine Engine

CHRYSLER *America's No. 1 Marine Engi*

MARINE ENGINE DIVISION • CHRYSLER CORPORATI

Colorful Ceremonies for Canfisco Launching

Symbolic of the continuing advances ade by Canadian Fishing Co. on the 0th anniversary of its incorporation as the launching of the 88 foot cker *Canfisco* recently in Vancou-r, B. C. The new vessel is one of e largest of its type to be built in estern Canada; a product of Ster-g Shipyards, subsidiary of Canadian shing Co.

Of sawn frame construction, the cker features a barrel-type bow and tremely high bulwarks for seawor-iness when the hold (capacity 125 ns) is filled. Engine room and crew commodations are aft and a flush ck with large hatch will insure enty of working space forward. Bulk-eads and engine bed are of fabricated eel, welded into a solid unit aft of the sh hold.

Main engine is a 360 h.p. Caterpil-r diesel with 4:1 Western Gear re-uction. Because of the fine entrance nes of the hull, this power is suffi-

President **Roger T. Hager** speaks at the launching of "Canfisco." Also on the platform are **Hans Ulstein,** manager of Sterling Shipyard, and **Mrs. Hager,** who officiated at the christening ceremony.

cient to give a speed of 11 knots light, 9 knots loaded. Twin cargo booms will be powered by Swann hydraulic winches as will anchor and towing equipment.

The vessel features glass lined wooden water tanks with pressurized hot and cold running water system to the accommodation area. The electric system is 110 volts, which will provide power for all the latest navigation devices in addition to adequate lighting facilities. Master of *Canfisco* will be Captain Charlie Johnson.

Launching of *Canfisco* was carried out at a colorful ceremony, Mrs. Robert T. Hager, wife of Canadian Fishing Co.'s president, performing the christening.

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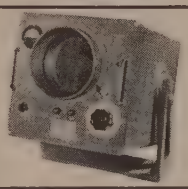
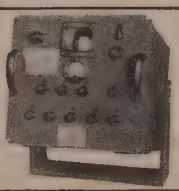
EDO FISHSCOPE Most advanced fish finding device on the market, available in three versions for deep and shallow fishing. Spots fish on CRT at depths to 400 fathoms, then magnifies any 10-fathom sector 20 to 40 times for clearer view. Compact design, single transducer.

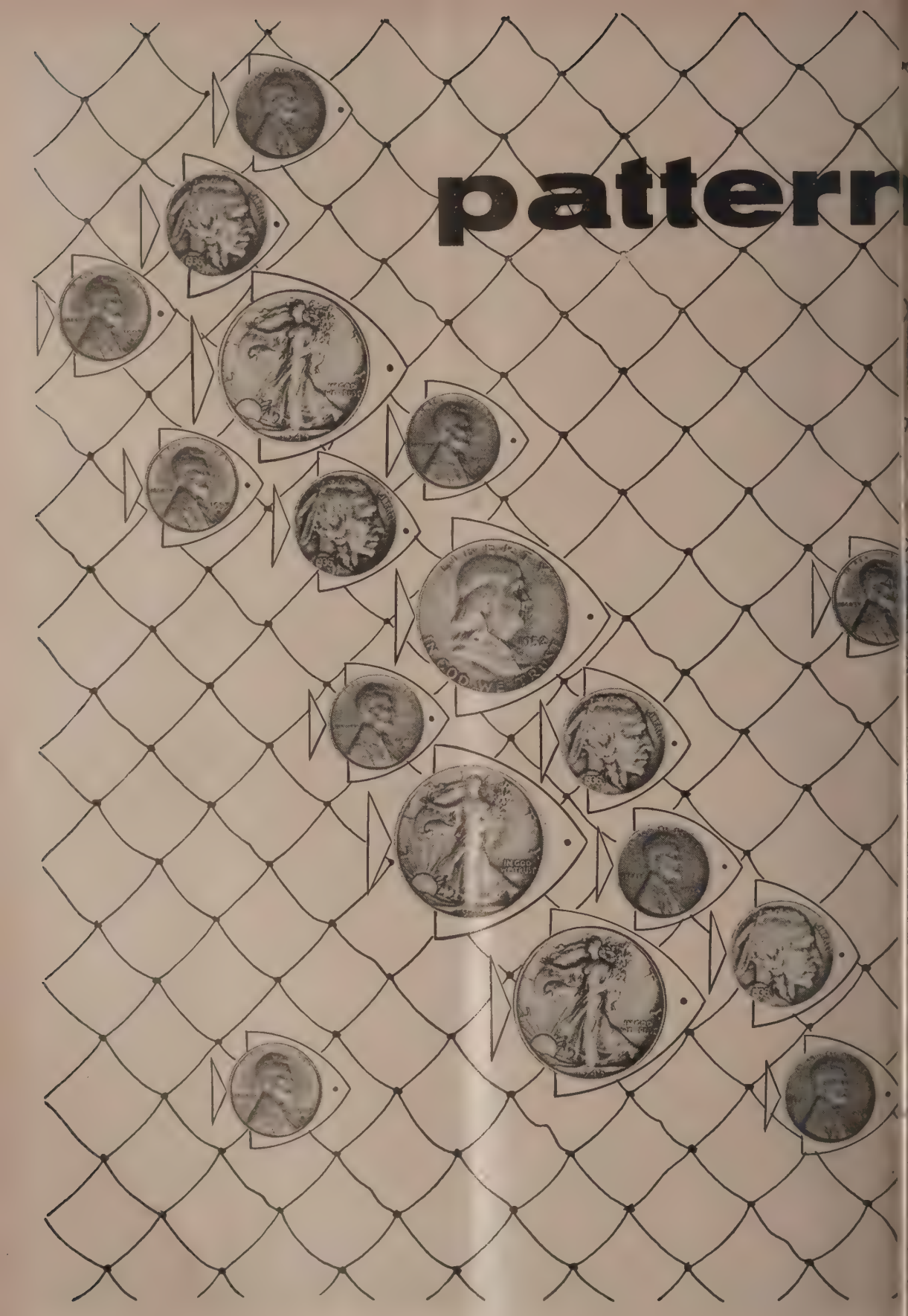


EDO LORAN Compact, direct-reading aid to long-range navigation. No special training required to operate. Fix obtained from single, 28-tube unit in matter of seconds, regardless of weather or sea conditions. Absolutely accurate though relatively low in cost.



EDO RADAR For long and short-range navigation in any weather. CRT display gives clear picture on 1, 2, 5, 10 and 20-mile range. Patented slotted waveguide antenna, mounted on transmitter, assures superior definition. Ideal where space and generator capacity are limited.

EDO CORPORATION College Point, L. I., N. Y. SINCE 1925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SCOPE and SOUNDER

Monthly digest of present-day pioneering methods and equipment in world fisheries.

By PETRALE

New Fishery For Grays Harbor

Results of the recent exploratory cruise by the U. S. Fish and Wildlife Service vessel *John N. Cobb* indicate the potential that a new fishery may exist in waters off the Washington coast. A number of good tows were reported in the area adjacent to Grays Harbor, Washington. The best fishing yielded catches up to 2,000 pounds per hour trawling and fairly consistent catches of 500 pounds or more per hour were made in several localities. Donald E. Powell, Chief of the North Pacific Fisheries Exploration and Gear Development Section, reported, "Excellent prospects for development of a commercial shrimp fishery off the Grays Harbor area." The most productive depths were between 65 and 85 fathoms both north and south of the entrance to Grays Harbor. The cocktail size pink shrimp were generally found in areas of green mud bottom. A series of seven 30-minute drags made 26 miles true west of Copalis Head resulted in a take of 5,210 pounds of shrimp.

The success of the exploration may have been greatly enhanced by the use of a 40 foot Gulf Coast shrimp trawl. The Gulf trawl which is standard gear in the great Gulf of Mexico fishery was said to be from two to three times as efficient as the beam trawl. The Gulf trawl was fished from one davit using a single warp with a 25-fathom bridle.

In all, a total of 94 drags were made at depths ranging from 48 to 138 fathoms. Most of the drags were made with the 40 foot Gulf trawl and a 20 foot beam trawl. A small mesh western otter trawl was also used on occasion.

There is some indication the shrimp may have a seasonal availability to a fishery. A survey made during the fall of 1955 indicated that the shrimp were spread over a wide area.

One boat, the *Royal,* out of Aberdeen, has made several successful hauls of shrimp and landed them in Westport. The development of this fishery appears to be confronted with establishing a satisfactory processing technique and market for the pink shrimp. Further information of the *Cobb's* survey, techniques of handling, and gear used in catching shrimp may be obtained by writing Mr. Powell of the U. S. Fish and Wildlife Service, 2725 Montlake Boulevard, Seattle.

Research Studies Effect Of Logging and Predators

Scientific investigations of the Fisheries Research Institute of the University of Washington are being broadened this season to include studies provided for by two contracts with the Fish and Wildlife Service.

Research will seek to evaluate the effect of Alaska logging operations upon the salmon streams and the runs of migratory fish dependent upon them for spawning grounds and rearing waters. The Service is seeking ways to protect the fishery against harmful effects which might occur. A field station is being established near Ketchikan and detailed observatio will be made of biological and phy cal changes resulting from the loggir Of particular interest will be the exte of silting in the stream bed and a changes in salmon runs and the su cess of spawning.

The damaging effect which sea lio and hair seals have upon fishing ge in those northern waters is well kno to the fishing industry but the ge eral effects on fisheries have not be measured. For some time these a mals have been considered serio predators on salmon and halibut, b to what extent is not known.

These research projects are financ by the Saltonstall-Kennedy Act whi provides for the development of fi eries and markets for fish produc The logging study contract involv $35,000 and the study of predat $20,000.

Apologies

In the May issue of *Pacific Fish man,* "Petrale" named the new capt of the FWS vessel *John N. Cobb* Joe Franko. This resulted in near pa aboard the vessel. The name be Jose' Franco. Jose' realizing that "P trale" has inclinations towards be a poor speller could overlook the ror, were it not that we were ex-s mates and that "Petrale" was a pr uct of San Diego. My apologies Senor Jose' Franco.

New Long-Line Method Reduces Manpower

Vessel operations of the Pac Oceanic Fisheries Investigations volving long-line gear recently h employed a new method of handl the line which is expected to mak substantial saving in manpower.

Instead of the gear being coi down by hand as it comes from line-hauler, the main line is co down continuously in a large revo ing tub on deck. The tub has capa for the equivalent of 100 baskets standard gear.

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elagic Fish Distribution tudied by California

The third of a series of flights by e California Department of Fish and ame's Cessna was completed in April nen the plane worked from San Fran-sco to San Diego. The purpose was study pelagic fish distribution, abun-ce and behavior.

No schools were sighted in the Cen-l California area. The report says, owever, that schools of anchovies ere present in Monterey Bay and it believed that heavy seas stirred up strong northwest winds drove the h to depths below the limit of visi-ity from the air.

Of particular interest was the pres-ce of hundreds of "swarms" of eu-ausiids in the Monterey Bay region.

storia Drops Derby

In recognition of the importance of e commercial fisheries to its econ-ny, and in line with the spirit of e new Oregon law to discourage hing derbies by limiting prizes to 5 maximum, Astoria civic leaders ve decided to abandon the Astoria erby, which annually has attracted ousands of sports fishermen.

Further, at the suggestion of Dr. W. Harvey, director of the Sea ods Laboratory at Astoria, the city ll develop its famous annual regatta a Fish Festival, which will in effect a salute to the commercial fish-ies.

an Diego Albacorers lect New Officers

Albacore fishermen formed in a co-erative known as the Five Star Fish d Cold Storage Company, San Di-o have held their annual meeting.

New officers: A. L. Barrett, presi-nt; M. D. Stewart, vice president; illiam Self, secretary; Vern Sam-n, treasurer. The board consists of eorge Konold, George Morris, harles Smith, Robert Larson, Sam ey, Scott Haselton and Ed. E. Allen.

William Farrer, from the Fisher-en's Cooperative Association, Seat-, was guest speaker at the meeting.

ermanent Boat Moorage onsidered at Ketchikan

Ketchikan's City Manager, R. E. arp, completed an agreement with e territory for the city to lease nomas Basin and the city floats. his lease was not to affect amounts ent by the territory for upkeep. The ty proposes to drive deadheads hich would enable boats to tie bow stern to on two of the floats. Thus ch boat owner would be assured a permanent mooring space.

Sperry research in the field of marine instrumentation relies on this new **Wanderer** for testing vital to the development of equipment employed aboard fishing vessels as well as craft in many trades. Sperry Gyroscope Co. recently commissioned this vessel to replace another of the same name. She carries a bewildering amount of equipment, including **nine** different steering systems.

Jorvard T. Smith Heads Halibut Producers Co-op

The following new officers were recently announced by the Halibut Producers Co-op: Jorvard T. Smith, president; John Clausen, 1st vice president; Ray Thomassen, 2nd vice president; Olaf Schei, secretary; Al Shramen, treasurer.

Troller "Chief Seattle" Moves to Ketchikan

Chief Seattle, a 41' troller, was recently purchased in Seattle from George Northup by Captain Floyd Eugene Wells of Ketchikan, and will operate in Alaskan waters this year. Captain Wells formerly owned the *Eddy*.

More Power for "Reamus"

Ward J. Webber, El Granada, Calif., skipper of the 40' combination fishing boat *Reamus*, is repowering it with an 80 hp Model 49 Fairbanks-Morse diesel engine at Parker Diesel Engineering Co., Oakland, Calif. The engine is fitted with a Twin Disc 2-1 reverse-and-reduction gear. The engine was purchased from the San Francisco factory branch of Fairbanks, Morse & Co.

Fathometer Used On Research Vessel Skiff

A Raytheon DE-112 Fathometer was used on the last trip of the *Yellowfin*, research vessel of California Department of Fish and Game, on the vessel's skiff.

The observers in the skiff were directed by radio from an observer in the department's spotting plane, and as the skiff passed over a school the surface area of the school was estimated from the air. The depth of the water and the limits in depth of the top and bottom of the fish school were determined from the Fathometer.

Stiles Repowers "Sitka"

Oliver Stiles, Crescent City, Calif., skipper of the combination boat *Sitka*, has repowered her with a Cummins diesel engine, Model NRT 300 hp Turbocharged, and equipped with one of the new Twin Disc Model MG511 reverse and reduction gears, ratio 4.1-1. Engine and gears were purchased from Watson & Meehan, San Francisco.

SAN PEDRO SEINE SETS

FISHERMEN'S FIESTA, San Pedro, has been set for Sept. 16, according to the chairman of the event . . . last year it occurred in October . . . Dr. E. C. Spires is chairman . . . Frank Di Meglia of San Pedro was taken from his vessel, the *Western Fisher*, Norman Mezin, skipper, by a Coast Guard plane when he was reported suffering from an attack of appendicitis . . . the plane was reported to have covered 1,130 miles . . .

JOHN FALCONI, Star Fisheries, San Pedro, died of a heart attack while driving his car. He was only 44 years of age . . . Lee Payne, a former member of the California State Fish and Game Commission, has been appointed to the Los Angeles County Fish and Game Commission . . .

JAKOV MISETICH, 76, father of three fishing sons, and formerly skipper of his *Lucky Star*, died in April in San Pedro. He had lived in San Pedro for 37 years. His sons are Anton, Dominick and John; surviving also are his wife, a daughter and seven grandchildren, and a brother, Karmen . . . Star Kist has announced that it has withdrawn its application with the Los Angeles harbor department for construction of a third dock at the large plant No. 4 on Terminal Island.

All-Nylon—

Vern Cragg and W. W. Johnson, who designed the all-nylon mid-water herring trawl aboard the **Sea Pride II**, fleeting the wings and body of the net. Note the "plane floats" used, with the lifting collar around the metal ball.

Selective—

One of the advantages found for the mid-water herring trawl is that it is selective, taking the larger fish, while the small ones generally escape through the 5" mesh of the wings.

Rigging—

Preliminary to opening the "zipper" in the cod-end for brailing, the crew in the photo below lashes a buoy at the after end of the parallel pole at the point where it is lashed to the outrigger pole. The outboard edge of the "zipper" opening is laced to the parallel pole, which is held off by the outrigger pole and at its forward end by the Legaz pole, seen here in the way of the shrouds.

B. C. Mid-Water Herring Trawl

• Use of the so-called mid-wa trawl in place of the purse seine being urged by some fishermen British Columbia as an improv means of harvesting herring, at le in some areas.

The mid-water trawl is a relativ new development and its success application, although so far prima experimental, has been largely to the co-operation of the Pac Biological Station and the Fishe Research Board of Canada. O three or four fishermen have u the trawls to an appreciable ext

The research crews went into ac after fishermen who had been tr out various new methods of trawl for herring had met with indiffe results three or four years ago. Or nally it had been attempted to dr the inside of a regular trawl v 1⅜" mesh herring web; but this p cedure created an almost impe trable wall of netting for small and also had the effect of scra up material such as shells and r from the bottom. It was also a method, and trawling was left far hind in seeking to match the sp

"T5X Motor Oil...doing the finest job of any"

Capt. John C. Ferguson, St. George Packing Co., Ft. Myers Beach, Florida

"T5X is the motor oil of my choice for the boats in our shrimp fleet. All things considered, it's doing the finest job of any oil we know of.

"Our 13 boats, plus the five we manage, are variously powered with Caterpillar D 13000s, 671 and 110 GM diesels. T5X performs equally well in all of them. Bearing failures with this oil are unheard of, and although we customarily change liners at 7,000 hours as a matter of precaution we seldom detect the slightest wear."

Captain Ferguson's experience is typical of thousands of owners in the Gulf and Pacific fleets. T5X Motor Oil is giving outstandingly good results in all types of marine installations. If you're not yet using this *amazing* purple oil in your boat we suggest you contact your nearest Union Oil representative for prompt delivery of T5X.

UNION OIL COMPANY 76
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Philadelphia: Eastwick Ave. & Edgewood St. • **New Orleans:** 644 National Bank of Commerce Bldg. • **Kansas City, Mo.:** 612 W. 47th St.

"Zipper"—

How the "zipper" is rigged for brailing the mid-water herring trawl is plainly shown in the photo. Note how the parallel pole keeps the zipper open. It is held-off by a line from the Legaz pole, upper foreground; and by the outrigger pole shown abaft the brailer. Note the keg which provides floatation at the junction of the parallel and outrigger poles.

and efficiency of the seiners.

However, the introduction of the mid-water trawl has apparently eliminated many of the defects of the original trawl procedure, and some fishermen have even gone so far as to say that the entire quota of herring could be taken by the mid-water trawl, extending the season over the long, lean winter period, while making a better economic return to the fishermen in relation to the value of the catch.

The fishermen who favor the mid-water trawl also claim that the fish thus caught are of an average size larger than those caught by seines, since the wings and body of the trawl are composed of a 5" mesh net gradually decreasing to 3" mesh, which seems to allow most of the smaller fish to escape. It is claimed that a better quality herring can thus be made available by the selectivity of the gear, and that the cause of conservation can be furthered by more extensive adoption of the mid-water trawl.

The trawl net is built almost entirely of nylon twine and nylon rope, reducing resistance of the net in the water without losing strength. Otter boards used to spread the mouth of the net are of a new design and suspended in a manner not previously used.

The wings and body of the mid-water trawl net are constructed of nylon web in three sizes, 5", 4½" and 3½", progressively decreasing to the cod-end, which is 6 to 8 strips long and composed of 1¼" nylon web.

The cod-end is fitted with a "zi per", laced shut in operation a opened for removal of the catch wh the cod-end is brought alongside t vessel. Then a strap chokes-off t cod-end to prevent the fish fro working into the body of the n A "parallel pole" is lashed to the ou board edge of the zipper openir It is held-off from the vessel at t after end by an outrigger pole fr the rail of the boat. Both are su ported at their junction by a bu kep. The forward end of the paral pole is held-off by a line from t Legaz pole swinging out from t rail at the shrouds. Inboard edge the zipper opening is secure to t rail of the boat during brailing.

Several catches of 10 to 35 tc of herring have been made in 15 20 minute tows at depths of 15 to fathoms at night time, when t trawls can be towed at higher spe and catch faster-moving fish. In da light operations catches ranging fr 5 to 15 tons have been made in minute tows at depths of 30 to fathoms, far below normal fish range of purse seines.

20 Tons—

Cod-end of the mid-water trawl full of fish alongside the dragger. Most of the herring are large and alive when brailed aboard. Most fishing is done at depths which normal purse seines cannot reach. Cod-end mesh is 1¼" nylon.

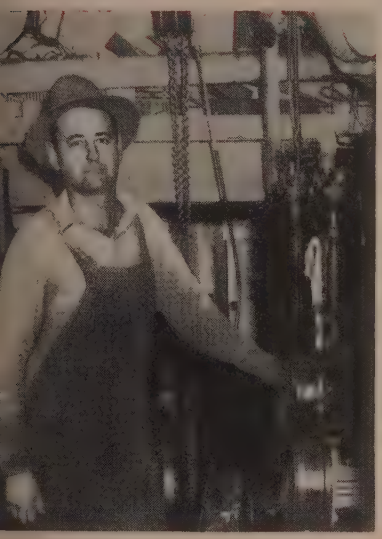
Standard Engineer's Report

CASE HISTORY

PRODUCT RPM Delo Oils and Standard Diesel Fuel

FIRM M.V. Nancy Hanks, San Pedro, Calif.

Special oil ends ring trouble and oil burning!



FORE USING RPM DELO SPECIAL LUBRICATING OIL, Jim d Matt Martin had trouble with loss of compres- on, hard starting and excessive oil consumption the M. V. Nancy Hanks' 180 h.p. Atlas diesel. erhaul in 1950 showed competitive oil caused hard rbon deposits in ring grooves and on other parts. n exclusively on RPM DELO Special Lubricating Oil nce overhaul, they have had no further trouble. PM DELO" keeps rings clean and reduces wear; oil nsumption still is normal and compression remains to factory standards. Engine is in top condition spite of year-round hard work.

MARKS: Standard Diesel Fuel and RPM DELO Oil work gether to develop highest efficiency in diesel gines. The fuel is made to exact specifications; e oil contains compounds to keep engines clean d prevent wear.

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RPM DELO LUBRICATING OILS

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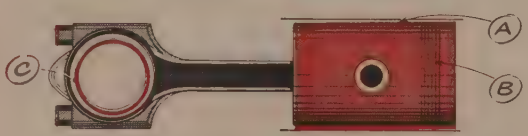
"WE RAN TWO YEARS WITHOUT PULLING AN INJECTOR, too, after changing to Standard Diesel Fuel," says Jim Martin (above, left). "We've had no trouble at all with fuel pumps and injectors, even though we didn't use fuel filters. Standard Diesel Fuel always gives us full power at all engine speeds."

How RPM DELO Oils keep engines clean and prevent wear



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Another satisfied Nordberg owner heads out to the salmon grounds of Puget Sound . . . it's Even Eide of Stanwood, Washington, at the wheel of his new 31′ V-bottom gillnetter, *ROAMER III*. Designed by Edwin Monk and built by the Northwest Boat Shop, Everett, Washington, *ROAMER III* is powered by a 110 hp Nordberg *MARLIN*.

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AL 1150 and EL 1364

LINES and LEADERS

terprise Appoints Selfridge anager of Special Products

T. Bruce Selfridge is the newly named anager of Special Products for Enterise Engine & Machinery Co., San Franco. In making the announcement, W. Clausen, Enterprise vice president and neral manager, stated that Selfridge will rect sales of Enterprise oil burners, intutional waste disposal units, and food ocessing equipment, including presses d vertical hammer mills.

Bruce Selfridge, manager of special products for Enterprise Engine & Machinery Company, San Francisco.

ludworth Marine Division of Kearfott

Bludworth Marine, for thirty years actively engaged in the manufacture, sales nd service of electronic instruments, reently became a division of Kearfott Comany, Inc.

Kearfott Company, Inc., is well known the aviation and marine industries, anufacturing gyros, control components, avigation systems, radar components and st equipment.

Mr. Willard C. Blaisdell, long associated ith Bludworth Marine, will serve as Genral Manager of the new Division.

Expanded activity in the marine field as created a need for new designs, comonents and instruments. It is expected

Dale Leonard, recently appointed sales representative for the B. F. Goodrich Sponge Products Division. He is associated with Sam Hayes, who has pioneered the use of Spongex floats in the fishing fleets of California. Mr. Leonard works from the company's Los Angeles office.

that this new relationship combining the Bludworth Marine service organization and knowledge of its specialized field with Kearfott's large engineering and production facilities will better serve the need for new marine instruments.

Seattle Supply Houses Stock Norwegian Clothing

Fishermen's protective clothing manufactured in Norway is now being distributed in the Seattle area by three marine and fishing supply houses: Nordby Supply Co., Pacific Marine Supply Co. and Seattle Ship Supply Co.

The manufacturer, Capor Plarex Industries, Ltd., uses a basic material of fine Egyptian cotton, specially impregnated inside, and coated outside with a polyvinyl plastic to make it 100% waterproof.

The clothing is guaranteed not to stiffen in cold temperatures or crack after long wear. All seams are first sewn and then radio-welded by high frequency electricity. It is light, roomy, washable, and features special ventilation to avoid condensation.

The manufacturer claims that their garments, which include jackets, pants, hats and aprons, have great strength, are resistant to fire, acid, oil and grease.

Jan Koren is in charge of the Norwegian company's office at 1950 W. 16th Ave., Vancouver, B. C.

Radiation Resistant Lubricants Disclosed

Synthetic lubricants have been developed which perform better when subjected to atomic radiation than under ordinary operating conditions, Standard Oil Company of California researchers revealed.

The announcement, in a technical paper by scientists of California Research Corporation, Standard's research subsidiary, is the first public disclosure concerning secret work on lubricants which can function successfully in atomic engines.

Cal Research has been working on the problem of "radiation-resistant" lubricants for a number of years, paralleling the development of nuclear propulsion units for aircraft, submarines, and ships. Conventional lubricants tend to deteriorate excessively when exposed to radiation.

The Cal Research project, part of which was conducted with test machinery operating inside the nuclear pile at Oak Ridge, disclosed that the wear properties of a "poly(propene oxide)"-type lubricant actually improve upon irradiation.

J. Youngworth Joins Universal Motor Company

Ralph G. Klieforth, president of Universal Motor Company, has announced the appointment of James J. Youngworth as technical sales and service coordinator. He comes to the Universal from the Hughes Aircraft Company of California.

Mr. Youngworth will work closely with the engineering, sales and service departments in the interest of quality control and product improvement with special efforts on Universal's newest products, the Aqua-Pak V-Drive marine engine line and the newly developed diesel line of electric light and power plants.

L. A. Weom Changes Headquarters

Mr. L. A. Weom, who has for the past several years been Manager of Materials and Schedules for Fairbanks, Morse & Co. at Beloit, Wisconsin, has been appointed Manager of the Pump Sales Division with headquarters at Kansas City, Kansas. Mr. Weom succeeds the late Tom E. Woodruff.

Dr. Lueck Elected

Dr. Roger H. Lueck, vice president in charge of the Research and Technical department of American Can Company, has been elected to the board of directors of the Industrial Research Institute. The Institute is dedicated to improving the techniques of research administration and operation.

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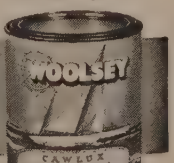

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n Diego Marine Hardware, 1520 India Street, San Diego, California
eeks-Howe-Emerson Company, 645 Howard Street, San Francisco 5, Calif.

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JERRY'S BOAT SALES: For any type or kind of boat or ship. World - wide contacts. Matt Batinovich, owner and broker. New location: 310 West 7th, San Pedro, Calif. TErminal 3-4482.

FOR SALE: 82' Seiner, 250 Atlas, 95 Ton Refr. Hold, 110 V. System, $42,000; 51' Steel Troller, 25 Ton Hold, Winch, Salmon Gurdies, $16,500; 36' x 13' Plywood 6 Ton Refrig., full electronic equip., $7,000. FRANK SIMON ASSOCIATES, Berth 205A, P. O. Box 834, Wilmington, Calif. TE 5-3101.

FISHING BOATS FOR SALE: Trollers and Monterey Purse Seiners. DON WOODWARD, Boat and Real Estate Broker, at Marine Supply Store, PO Box 45-A, MOSS LANDING, California. Telephone CASTROVILLE 6652; or apply at OAKLAND ESTUARY BRANCH, Don Woodward, Jr., Manager, care Evans Radio Dock, 901 19th Avenue, Oakland, California; Telephone KEllog 2-8158.

BARGAIN: Used parts for Atlas Imperial 13x16 marine engine. Cylinders, pistons, cylinder heads, valves, injectors, bearings and other misc. parts. All in good usable condition. Shepherd Marine, 3400 S. San Gabriel River Parkway, Los Angeles, Calif. Oxford 2-3751 or Raymond 3-7191.

FOR SALE—Steel boat, Monk design, 48'x13'10"x 5½', built 1948, 2200 gal. fuel cap. (double bottom) gross 31 tons, sleeps 6, fully equipped, priced right. C. M. Negstad, 943 Solano Ave., Albany, Calif.

FOR SALE OR LEASE: Modern salmon cannery in biggest producing area on Puget Sound. Crab and bottom fish available. Write Box 293, PACIFIC FISHERMAN'S NEWS, 71 Columbia St., Seattle 4, Wash.

FOR SALE BY OWNERS: Large fish cannery including land and buildings, with reduction plant. Outstanding value at bargain price, part cash, terms balance to right party. Also two additional reduction plants. P. O. Box 391, Monterey, Calif.

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Equipment consists of 2 cyl. Diesel engine which drives 110 volt generator and lineshaft. 16" American Metal lathe. 22" Sibley drill press. 12" two-wheel Arbor grinder. Universal nozzle tester. Welding equipment, benches, vises, fire extinguishers, etc. Ground tackle included. Length overall 40', beam 20', depth 7'. For additional information as to construction, price, etc., write or telephone Farallone Fisheries, Inc., 214 State Street, Santa Barbara, Calif.

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Fish Harbor — Terminal Island, California

News from Wrangell

With the coming of fine wan weather to Southeastern Alaska, t stateside boats are arriving for t fishing seasons. The *ARB* 10, wi Pat Kelley at the helm, arrived wi cannery supplies. He was accomp nied by his wife and daughter. Mu work was done on the *ARB* after s sank in British Columbia last fall.

The *Lonnie L* and *Oradee* stopp in Wrangell on their way to Cr Sound.

Matt Stuckey, whose troller *Spring* burned in Ketchikan during the wi ter, now has the 40' troller *Ena.*

Lennie Engstrom and his wife a leaving for Sitka to open The En strom Brothers buying station the

The Wrangell Laundry has open a Laundromat. It will be a big he to the fishermen who will be in to unloading fish and buying supplies.

L. A. (Buckshot) Woolery has pu chased the fish packer *Atlas.* It w pack salmon and halibut from the bu ing stations at Cape Pole, Port P tection and Snow Pass.

J. M. (Red) Steers and Mrs. Ste recently went south on their fish pac *Consul D* and bought supplies for th buying stations at Dixon Harbor a Elfin Cove.

George T. Brajcich Succeeds Wm. Pitre

George T. Brajcich, owner of seiner *Freeland* and vice president the Fishing Vessel Owners Associat of B. C., has been appointed pu seine representative on the advis board of the International Pacific S mon Fisheries Commission, succe ing William Pitre.

Troller Re-powered

Tony Bruno, Pittsburg, Calif., repowered his salmon boat *Sicilia* w a 60 hp Nordberg "Colt" engi fitted with Paragon 2-1 reverse reduction gears. The engine was p chased from King-Knight Co., Francisco.

The Story Behind the Name

There's a thrilling
y behind the name
Kaare, one of the
Canadian combi-
on halibut and seine
ts.
was in a boat of
name that Capt.
o Novik, who had
s handsome craft
t for him by Ster-
Shipyards, Vancou-
escaped from the
man forces in Nor-
in 1940 with his
ily and other refu-
.
They sailed the small
ing vessel across the
rth Atlantic, and
is still in service in
ada.
The new *Kaare* is
vered with a 270-hp.
erpillar diesel, installed by Finning
ctor & Equipment Co. With it, she
11 knots.

rsonnel Switch for ting Rope Works, Inc.

Kenneth P. Stephens, West Coast
nager, Cating Rope Works, Inc.,
speth, N.Y., has been promoted
Sales manager of the company and
move to their New York head-
rters.
Arthur H. Collbran Co., manufac-
rs representatives, with offices in
Francisco and Los Angeles, will
resent Cating Rope Works, Inc.,
California, while Columbia Indus-
& Marine Supplies, Portland,
., Bob Auguston, manager, will
resent the company in the Pacific
rthwest.

g Party Served ppino a la Paladini

Alex Paladini is not only president
A. Paladini, Inc., San Francisco,
of San Francisco's oldest and larg-
wholesale fish producing and dis-
uting houses, but his fame as a chef
spread beyond the boundaries of
state.
Alex is an old hand at cooking *Ciop-*
, and for big groups of people too.
rlie Mapes, owner of the world re-
wned Mapes Hotel, Reno, Nevada,
heard of Alex's prowess, and his
s in feeding upwards of 100 people
Cioppino dinners.
When Charlie decided to have a
party for 250 of Nevada's top
brass including the Governor, Sena-
tors, and Reno officials, he decided
that the thing to do was to have Alex
stage one of his famous *Cioppino*
dinners.

The dinner was held last month at the Fable Room, Hotel Mapes, and was voted one of the most successful affairs ever held in the "biggest little city." In fact they are thinking of making it an annual custom.

All the sea foods for the dinner were supplied by A. Paladini, Inc.

New Seiner

The 40' seiner *Guffy*, built by Olaf Hansen, was launched in Wrangell. The *Guffy* was built for Allen MacKay from a William Garden design.

It is a typical seiner but will have a crow's nest which most seiners of this size do not have. It will have a 671 G-M diesel with a Monel shaft, a 5-bladed Coolidge propeller and a Walther keel condenser. It will carry 600 gals. of fuel in galvanized tanks. Plywood decks with farbertite covering are found on the *Guffy*. A Rowe winch is found on deck. The modern pilothouse is lined with mahogany marlite. The cabinets are also made of mahogany.

The *Guffy* has a 32-volt electrical system, a White automatic pilot and a 40-watt Northern radio-telephone. The galley has a new Olympic oil range.

Captain MacKay expects to be ready to fish on June 24 when the first area in Southeastern Alaska opens for seining.

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Fish Liberations By Oregon Commission

Spring Chinook salmon—some 100,000 fish of the 1954 brood stock—are currently being released into the McKenzie River below the intake of the power canal at Walterville. These fish are from the McKenzie salmon hatchery.

Also currently being released from the Sandy river hatchery into the Sandy river near Dodge Park are some 130,000 fish including both steelhead and silver salmon. The silvers are of 1954 brood stock; the steelhead of 1955 stock.

Electronics For Fishermen

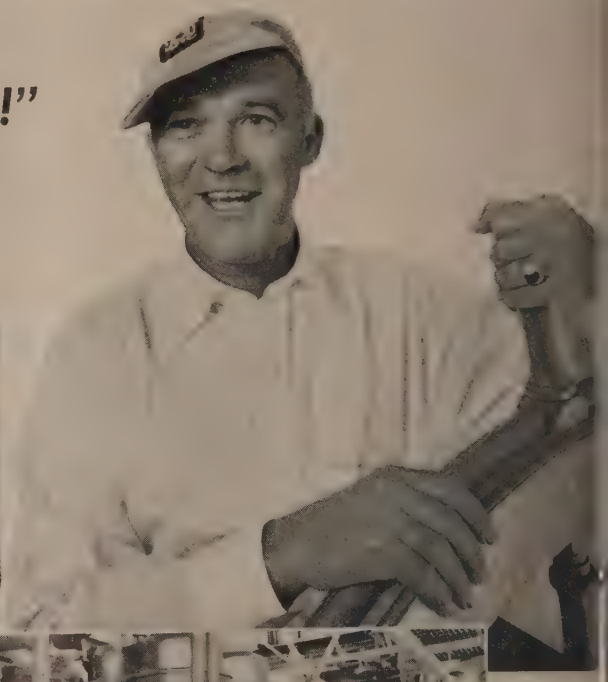
Drifter, a party fishing boat owned by John Patrick Deasy, Sausalito, Calif., has been equipped with a Model TR222 Kaar 85-100 watt radio telephone by Evans Radio Dock, Oakland.

Ma-Ru, a party boat, owned and operated by Louis Ritlaw, Sausalito; *No-Be*, a salmon troller, Fred Matthews, Oakland; *Kanoe-Grande*, Albacore boat, Jim Stillman, Long Beach; *Dancing Lady*, salmon troller, N. W. Spencer, Oakland; and *Nile III*, salmon and Albacore boat, Charlie Sprott, Oakland, have all been fitted with Ross depth indicators and Pip-Skeek radar reflectors by Evans Radio Dock, Oakland.

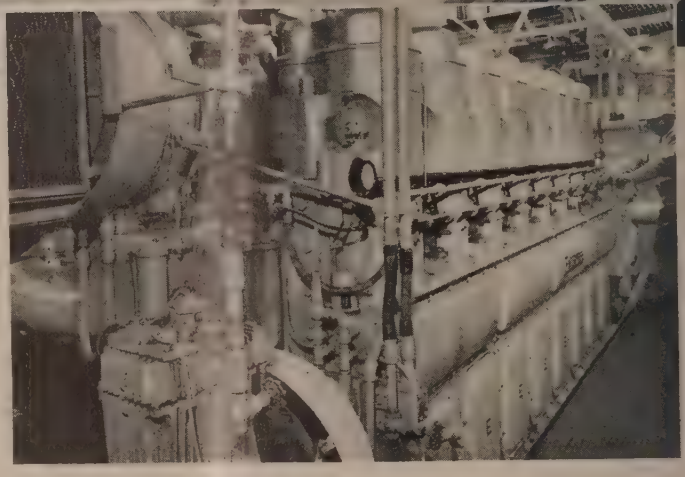
"Fast-handling, trouble-free, smooth-operating

—that describes our Enterprise 800 H.P. Diesels!"

Says Captain HUDNALL HAYNIE, skipper of the PARRAMORE BANKS since her commissioning in May of 1955. Powered by a big Enterprise Turbocharged DMG-38, rated 800 at 400 RPM, this steel-hulled fishing boat is the most recent addition to the Fish Products Company fleet.



The "Parramore Banks," shown with several of her sister ships at the Lewes, Delaware dock of Fish Products Company, is owned by Smith Enterprises, recognized as the largest fishery operators in the world. Of their 27 menhaden boats, 19 are powered by Enterprise Engines.



Second Engineer Earl Davis, pictured at the controls of the 8-cylinder Enterprise. When the fish are running the engine is often worked 15 to 22 hours a day, 7 days a week! This means that the speed delivered by this engine of about 12 knots or better, plus its trouble-free operation, are all-important.

"The engines in fishing boats take a beating," states Captain Haynie, veteran skipper of 27 years. "We do as much backing and filling as most tug boats. Much of this is in picking up the purse boats that carry our nets, sometimes as often as 10 to 12 times a day.

"This is a tricky business on an open sea. It takes a quick-handling engine that delivers the speed and direction we want—when we want it. Sometimes the lives of the 25 men in those purse boats depend on that. Within a few seconds after I signal, the Enterprise Engine switches direction. No hand-winding of cams into position for change of speed or direction. The Enterprise is completely automatic... sim and easy to operate.

"Space can also be a problem on a fishing boat," c ments Captain Haynie. "The Enterprise we've got on bo is at least 25% smaller than engines of equal HP whic used 10 and 15 years ago. That means an increase in carrying capacity... and our earning power."

This kind of record can be yours, too, with Enterpr Models from 73 to 7703 HP for every marine applicat Write or call us today.

The Parramore Banks was built by RTC Shipbuilding Corporation, Camde

Over a million horsepower at work the world over!

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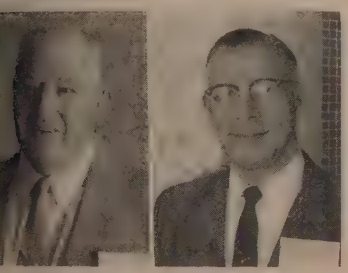
FOREIGN RELATIONS

Top Topic For National Fisheries

Complex of problems related to nerica's foreign affairs in fisheries mmanded first consideration at the 56 convention of the National Fish-es Institute, held at Miami Beach. Moreover, there was good evidence at this concern is shared today by e national government to a higher gree, and possibly at a higher level, an hitherto. The convention was at-



nn J. Allen, Jr., and **Thor C. Tollefson,** Congressmen from California and Washington.

nded by an Assistant Secretary of the terior, and 10 Congressmen, while e principal address of the convention as delivered by Senator Leverett Salnstall of Massachusetts, an Administration leader in the Senate.

Speaking primarily to the point of nited States policy with respect to heries and the high seas, Senator ltonstall was regarded as a spokesan for the highest level of national thority.

SIGNIFICANCE unquestionably tached to the fact that Senator Salnstall did not refer in his address to e new complications arising as result the U.S.S.R. moving to establish mporary authority over a great area the Asian high seas in the name of nservation.

The impression was that American licy was not being disclosed until e Soviet's move could be more accuely assessed.

Action of the convention in the reign field was held to a discussion eting with the congressional delegation, where the fisheries representaes strongly advocated (1) action by ngress to enunciate a general nanal policy toward the fisheries and the natural resource they develop; (2) representatives experienced in fisheries problems at policy levels in future delegations at international conferences and the General Assembly of the United Nations; (3) upgrading to policy level of the fisheries service in the national government.

● *LEGISLATION* seeking reorganization of the Fish and Wildlife Service under a largely autonomous commission within the Department of the Interior was strongly advocated at the convention, largely by membership from the Texas shrimp industry and spokesmen of California tuna producers.

It was tied to the dominant inter-

Joe J. Camillo, San Diego, director, and **Bernard Oxenberg** of Oxenberg Bros., New York.

national theme on the contention that the growing international responsibilities of the federal fisheries service required that it be represented on commissions and at conferences by a spokesman with time and experience to be a specialist in this field; and with the official prestige necessary for him to stand on a footing comparable with the representatives of other countries.

Secondly, continuity of fisheries policy and direction from one administration to the next was sought.

Despite the strong campaign in its behalf, the measure failed of endorsement, presumably because the N.F.I. directorate sensed the political aspects of the measure in an election year. Further, it was perhaps significant that four of the eight formal resolutions adopted by the convention carried warm expression for the contribution of the Fish and Wildlife Service to the industry.

Pacific Coast Congressmen who at-

John L. Farley and **Arnie J. Suomela,** director and assistant director of USFAWS.

tended the Miami Beach convention were: Thor Tollefson of Washington; John J. Allen, Jr., and William S. Mailliard of California; and Walter Norblad of Oregon.

● RESOLUTIONS of the convention, eight in number, covered these points:

1. Development of a special accounting system for small fish businesses.

Charles D. Alhadeff of Whiz, former NFI president, and **Dean Kayler** of Kayler-Dahl.

2. Regional-level attack upon the problem of improving fresh fish quality.

3. Appreciation for the contribution of the Fish and Wildlife Service in developing an intensified program in the

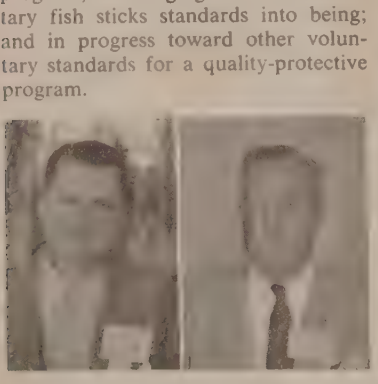
New officers elected at Miami N.F.I. convention, from left, **Aldo Casaretto,** Los Angeles, secretary; **Frank W. Wilkisson,** New York, president; **Ralph Carr,** Kansas City, Mo., treasurer.

field of fresh fish marketing.

4. Request for expansion by the national Service and state agencies of research studies in freshwater fish biology and conservation.

5. Invitation for the Fisheries Council of Canada to meet with the NFI freshwater fisheries committee in an approach on the problems shared by this industry in both countries.

6-7-8. Appreciation of the realistic aid provided by the Service in the development of a quality improvement program; in bringing the new voluntary fish sticks standards into being; and in progress toward other voluntary standards for a quality-protective program.



Neil Taylor and **Bryce Florence,** Pacific Southwest Region IV officers.

● ELECTION of officers made Frank W. Wilkisson of New York president of the N.F.I., with Aldo Casaretto of Los Angeles national secretary and Ralph Carr of Kansas City national treasurer.

Pacific Coast regional vice presidents elected were Elmo C. Jack of the E. C. Jack Brokerage Co., Los Angeles, and Norman Weitkamp of Washington Fish & Oyster Co., Seattle.

Other elected officers of Region IV, Pacific Southwest, were: executive committee, Neil Taylor, Oakland; nominating committee, Bryce Florence, San Francisco; directors, Robert Cole, Frank Alioto, Emanuel Stein, Pueblo, Colo., Sam DeLuca, Jack Karobonik, Joe Camillo and Louis Vitale.

Pacific Northwest, Region V, officers were elected thus: executive committee, John Lauc, Seattle; nominating committee, E. A. Ruthford, Seattle; directors, Myer Bornstein, Bellingham; Palmer Olson, Rufus Littlefield, Mark Calvo, Seattle; Charles R. Byers, and Dudley Turnacliff, Portland; James Pinkerton, Ketchikan.

Mark Calvo and **John Lauc,** Pacific Northwest Region V officers.

The 1957 convention will be held in Chicago, followed by San Francisco in 1958. Expectations are that the 1959 meeting will be held in New York City, with 1960 at Hollywood, Fla., and 1961 at New Orleans.

Francis Taylor, retiring president, closed his administration with the declaration that the American fish industry is "on the step" quality-wise; and the prediction that the next two or three years will see it make sweeping technological advance as result of the application of antibiotics and of other scientific discoveries and developments to its products, methods and processes.

● *QUALITY* campaigning of N.F. moved forward a long way durin 1956 under the direction of E. A Ruthford of Seattle as national qualit chairman.

This was particularly evidenced b the convention cutting and display c frozen products. This feature was pr sented on a different basis than in th past and actually represented the fin step in a program which had been effect for some weeks. The Mian Beach demonstration and display w preceded by early spring critical e aminations by inspection teams in S attle, Miami and Boston, where sar ples from producers' warehouse stoc were scrutinized according to an e acting formula of appraisal.

Then at the Miami Beach conve tion teams of judges repeated the examinations on a demonstration bas

Elmo C. Jack of Los Angeles, and **Norm Weitkamp** of Seattle, new vice president

followed by display of duplicates fr the original samples. Specimens each pack were shown both in thaw condition and immediately upon wi drawal from cold storage.

Contribution of the entire dem stration and display to the cause quality was rated high indeed.

● *RATING* of the Seattle exami tion of samples showed some de-gr due to mixing of species in fillet pa ages. Difficulty in getting full wei into packages of steaks was noted b in salmon and halibut.

Pacific Ocean perch was all t rated; and all sole seen was good s for one package, which was p enough to pull down the aver rating.

Percentage of breading on shrim an annual item of convention inte — was reported this year as 47 somewhat lower than in previ years; but still regarded as much high by most examiners.

Display of numerous samples of sticks disclosed an astonishing va tion in size, shape, appearance, pa ing, color and finish.

● *HONORS* were paid by the tional Fisheries Institute to two m bers of Congress, both present at convention.

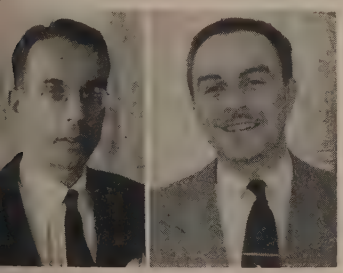
To Senator Saltonstall, in recogni-
n of his sponsorship of the Salton-
ll-Kennedy Bill, with its financial
pport of fisheries research and de-
lopment by means of funds from

rence Calvert and **E. A. Ruthford** of Seattle participated in the program.

ties on fishery imports, went the
nual N.F.I. Service Award.

Thor Tollefson, who has stood
ong the foremost friends of the
heries in Congress for a full decade,
d who expects to retire this year
m political service in the national
ld, was honored with a gift from
industry, presentation being by
wrence Calvert, president of the San
an Fishing & Packing Co., Seattle.

ADVANCES in fisheries science,
thods, materials and equipment
re told by trade representatives in
NFI convention program never be-
e undertaken in the Institute's meet-
gs.



k D. Langlois and **Dr. Wilbur H. Miller,** scientists, discussed use of antibiotics.

Keenest interest centered about the
ject of antibiotics, and scientists
resenting two of the fine chemical
nufacturers discussed the kind of
velopment which may be expected
en the Food and Drug Administra-
n permits the use of antibiotics such
chlortetracycline (Acronize) and
tetracycline (Biostat) in contact
h fish.

Jack D. Langlois, manager of the
d and beverage department of Chas.
zer & Co., Inc., spoke for that firm;
d Dr. Wilbur H. Miller, director of
ustrial application, Fine Chemicals
vision of American Cyanamid Co.,
d of that company's studies in the
d.

Their discussions made these things
in:

Use of antibiotics probably will be

Freedom of the Seas

● Freedom of the seas still is the doctrine of the United States, and it must be protected.

So Senator Leverett Saltonstall told the National Fisheries Institute, and there were few among his thousand hearers who doubted at all that he voiced the highest policy of the national government.

"Freedom of the seas and sovereignty over the seas by adjacent countries simply are incompatible doctrines," he said, and went on in carefully measured words to say:

"We have found it advantageous to develop, with our neighbors, peaceful means of mutually protecting the resources which our respective citizens harvest on the high seas without doing harm, however, to the doctrine of the freedom of the seas. *We cannot afford to injure that doctrine."*

Nor did he leave any doubt as to what he was speaking of:

"Friendship with our good neighbors to the south has long been a keystone in our foreign policy. International cooperation, mutual study of mutual problems, calm discussion and debate of ideas, and multilateral approach to the solution of political, economic, juridical, security, social and defense questions has made the relations between the nations of the Americas a model for the rest of the world. Now we must see that those relations are not disturbed by unwise or, we hope, unnecessary actions affecting such a basic policy as the freedom of the seas."

Referring specifically to the action of the Inter-American Council of Jurists at Mexico City in supporting extra-territorial sea claims, the senator said:

"Responsible officials of our government are most disturbed about the actions taken, and the way in which they were taken."

● Senator Saltonstall spoke his plain words only a few days after others equally plain had been voiced in Ottawa by another high national official, Undersecretary of the Interior Clarence A. Davis, speaking to the Fisheries Council of Canada.

Like Senator Saltonstall, he referred to the fact that the pioneering actions of the United States and Canada in the halibut and Sockeye salmon treaties had pointed the way in which the nations of the world may share fisheries without damaging either peace or the resource they utilize.

Closely condensed, but directly quoted, Mr. Davis' words ran thus:

"We have developed a tradition of voluntary cooperation in conservation.

"Another method of conserving marine resources has been advanced by nations in several parts of the world—conservation based on unilateral rather than joint action . . .

"The view of the United States is that this problem—the conservation of marine resources—is essentially a technical one . . . Extensions of jurisdiction or sovereignty are neither necessary nor would they be particularly effective in promoting the conservation of the resources of the sea . . .

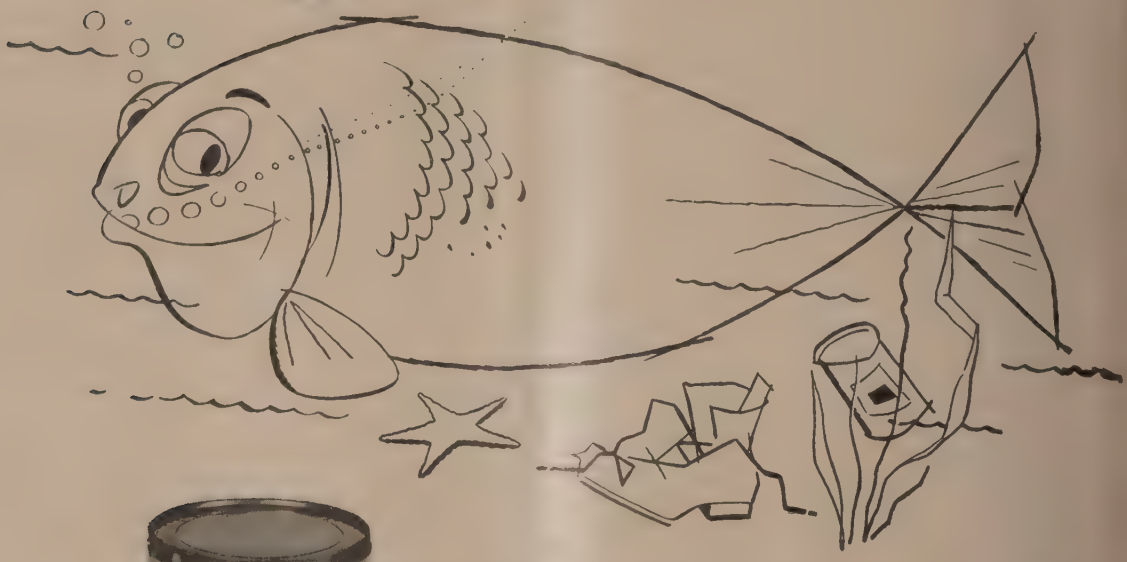
"Conservation does not mean 'locking up' a resource. Conservation means using the resources in such a way as to insure the maximum harvest year after year. Under-exploitation—leaving the fish to die in the sea—is as wasteful of the resource as over-exploitation . . .

"There are, of course, certain special situations. Some resources are, we know, now being fished to the safe limit, and are subject of extensive conservation programs . . . Canada and the United States along with Japan have recognized the existence of such special situations and in order to deal with them have developed the abstention principle—the outstanding characteristics of which are the fact that it has been applied as the result of agreement between governments, rather than unilaterally; and the strict criteria which must be met before it can be applied —maximum utilization, intensive investigation, regulation. *There may be other situations where this principle could be applied."* (Emphasis supplied by editor.)

"Believing firmly that in voluntary cooperation lies the solution to international conservation problems, we shall continue our efforts toward a system which incorporates that principle, confident of Canada's support."

Me 'n Golden Dipt

A SURE-FIRE COMBINATION
Quality . . . . Profit



Whether you're processing fish, meat or poultry . . . Golden Dipt gives your product added sales appeal . . . Here's Why—

Golden Dipt is made from soft winter wheat dehydrated granules that protect your product from excessive grease absorption when frying. Golden Dipt contains MSG for added flavor appeal and a special antioxidant (when desired) to protect that added flavor appeal while your product is held in cold storage.

NOTE: The original Golden Dipt formulas can now be custom-blended to meet your exact specifications in regard to texture, color and pick-up. Write for more information and for your free sample of Golden Dipt Breading and Batter Mix.

GOLDEN DIPT is the only product of its kind awarded the Good Housekeeping Seal

GOLDEN DIPT
Guaranteed by Good Housekeeping

GOLDEN DIPT DIV. MELETIO COMPANY ST. LOUIS, MISSOURI

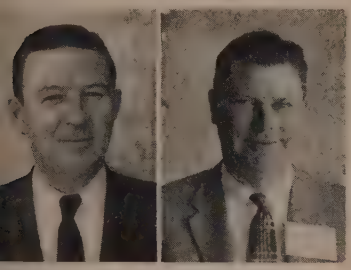
Represented by—Morrill-Nelson Co., 1248 Wholesale St., Los Angeles, Calif.; Clyde Le Baron Co., 110 Market St., San Francisco 11, Calif.; Marsh & Co., 1238 N. W. Glisan, Portland, Ore.; James A. Edington, Inc., 225 Roy St., Seattle 9, Wash.; J. J. Camillo, 935 W. Harbor Drive, San Diego, Calif.

mited to products which customarily re cooked before eating, as heat de-roys all trace of the chemical, pre-enting any danger to allergic con-umers. Thus use on uncanned oysters doubtful.

Top quality freshness of salmon and alibut has already been shown as pro-nged as much as a week where the sh are shipped in antibiotic ice.

Antibiotics will be no substitute for nitation and refrigeration methods ow in use; but will greatly extend eir effectiveness with fish.

Dr. Miller reported that bacterial unts on salmon stowed in ice for 8 days showed an index of 28.4 for sh packed in regular ice; and 0.59



hn Hasbrouck, Doughnut Corporation of Am-ca, Breader Mix Division, and **Robert D. Ladd,** Pacific Marine Supply Co.

r that packed in ice containing chlor-tracycle. In 16 days the bacterial unt indices had risen to 91.6 and 74.

Mr. Langlois emphasized the attrac-veness of the product to canners as ell as in the fresh and frozen fish ades, particularly because it would ake it possible to bring fish in prime ality condition from greater dis-nces; and because the ability to hold sh under controlled conditions at the nneries would level the peaks and lleys of demand and permit marked-more economical plant operation, rticularly in such regions as Alaska. While antibiotics held the center of terest in this technological program, provements in fish sticks packing me in for discussion also.

Jack Hasbrouck, sales manager of e Downyflake Breader Mix Division the Doughnut Corporation of Am-ica, spoke in appraisal of modern velopments in breading equipment r fish sticks, shrimp, oysters and her foods. Manufacturers keep up-rmost in their designs the sanitary pects and ease of cleaning, as well the high standard of workmanship the products.

C. J. Robinson of Procter & Gamble scussed consumer preference in fish cks color, and the importance of aintaining uniformity by selection of e cooking medium and its regular tration.

● TRADE SHOW at the N.F.I. convention proved unusually attractive to the fishery operators, not only because of the exhibits but also because the location was roomy and comfortable.

R. M. Sloan, R. M. Sloan Company, and **John Allen,** Skinner & Eddy Corporation.

There were too many booths all to be discussed here, but among the notable ones might be mentioned:

American Cyanamid Co., with Dr. W. H. Miller, W. W. Wiley, B. F. Bowman and M. Firman on hand to tell the many inquirers about Acronize.

Murphy Diesel Company of course featured its diesel engines, known throughout the fisheries, with Paul Schnetzky, P. A. Cowdrey and F. J. Hurley on hand.

B. F. Goodrich Sponge Products means Spongex floats to fishermen. F. R. Hammer, J. S. Wolff and J. K. Strobel were the company's representatives; and they were aided by an

Fred Hammer of B. F. Goodrich Sponge Products and **Karl Wuestenfeld,** Western Waxed Paper Division, Crown Zellerbach Corporation.

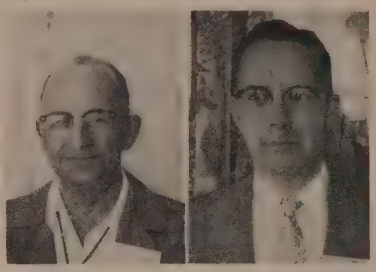
album of articles and pictures from *Pacific Fisherman* showing these floats in use.

Golden Dipt Division of the Meletio Company put on its usual razzle-dazzle show, with Jack Meletio leading the pack. Others included Phil G. Brady, G. E. Heimueller, Edward Collins, W. A. Cook, W. H. Dalton, W. P. Dunn, B. A. Hobson, Jack Kelly, Mike McConaughy, H. T. Nabors, A. C. Pfeiffer, R. T. Thorne and W. E. Wieking.

Marathon Corporation had a beautiful moving display in which cartoons showing labels of its manufacture paraded endlessly past. Running the Marathon were: Dan Allen, Russ Cook, Wes Craig, Fred Deutsch, John Evans, Walter Evanson, Mel Nield, Bob Putman, Phil Rundquist, Tom Schaaefer, Robert Shockley, Jim Turner, Bob Williams and Chet Wittenborn.

The York Corporation featured a model of its continuous freezer—developed from an invention of Frank Knowles of Seattle, with J. W. Binckley, C. N. Ehehalt, J. W. Floreth, Walter May, Donald J. Smith and F. C. Wood showing them how it works.

Plymouth Cordage Co. had a booth showing fishing ropes, with Thomas Arnau and Robert Becker in charge, backed up by Robert D. Ladd, general manager of Pacific Marine Supply Co., Plymouth's Northwest distributor.



Myer Bornstein, Bornstein Sea Foods, Inc., and **Borden Smith,** Canadian Fishing Co.

Schooler Manufacturing Co. showed its package wrapping machines, Joseph T. Schooler showing how.

Western Waxed Paper Division, Crown Zellerbach Corporation, again had a most attractive booth, backed by a competent team headed by Karl Wustenfeld, and including C. V. Page, M. Jaffe, C. K. Hayes and R. A. Ehlers.

Chas. Pfizer & Co. of course featured Biostat at its booth, which was competently manned by J. K. Langlois, Dr. A. S. Malaspina, William Peters, J. J. Duome and E. E. MacDonough.

Modern Maid Breading Mixes were well represented in booth and personnel with Sam Silverman, Jack Silverman, James H. Malaier, George Malaier, H. W. Gillis, Sandy Smith and Leonard P. Wolf.

Downyflake Breader Mix Division, Doughnut Corporation of America, had a beautiful machinery display, showing the prototype of its new batter and breader machine designed to handle any manner of material encountered in fish and seafood breading. John Hasbrouck headed a formidable team composed of John Twelvetrees, Zenas Blosk, Irwin Cohen, Abe Goodman, Charles Harkey, Horace Hawes, Jack Hesley, D. M. Leavitt, S. J. Levitt, John Metzak, John Reynolds, Charles Taylor, Joe Tribbe and Ben Wilson.

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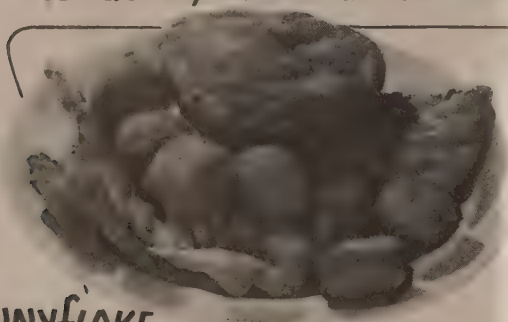

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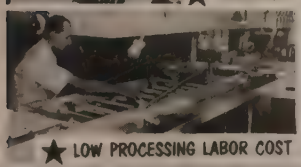

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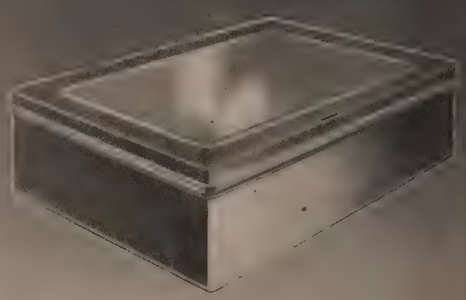
Stern Can



The Stern Fillet Can

STERN A GOOD CAN NAME SINCE 1901

STERN CAN COMPANY, INC.
71 LOCUST ST., BOSTON 25, MASS.

What a Competent Canadian Sees in

The Fisheries and Markets Of Far East and Australasia

The western rim of the Pacific presents a complicated but extremely interesting picture to John M. Buchanan, president of British Columbia Packers, Ltd., Vancouver, and chairman of the Fisheries Association of B.C. who recently returned from an extended tour of the Far East and Australasia during which he had an opportunity of conferring with many representatives of the fishing industry, government and administrative agencies. The entire journey was made by plane, involving more than 20 separate flights.

The Orient and South Pacific are interesting and important both in an operating and marketing sense, according to Mr. Buchanan, but each country appears to be in a distinctly different status. The area is one that does not lend itself to generalities.

Mr. Buchanan's tour took him to Hongkong, Manila, Australia and New Zealand. It began after his attendance in Tokyo at the conference of the International North Pacific Fisheries Commission of which he is one of the Canadian members. Incidentally, Mr. Buchanan is optimistic regarding the biological program of this Commission which has been described in detail in *Pacific Fisherman*.

Mr. Buchanan discovered that Hongkong is only a limited market for fish products from this continent, although he noticed some British Columbia canned salmon there. This is a market that in a relative sense seems to show more interest in mild cured, frozen and smoked salmon than in the canned product. A prospect of greater sales of packaged fish was seen in the recent opening of Hongkong's first big self-serve grocery, owned by the Dairy Farm Ice & Cold Storage Co., Ltd.

There were rumors of a proposed tariff on U.S. canned fish in the Philippines when Mr. Buchanan visited Manila. The market there appeared to be well stocked with a variety of canned fish, but the Philippines for all their potential productivity are virtually devoid of fish processing plants; and Mr. Buchanan had the impression that venture capital for development of the island's fisheries resources would be given every encouragement by the government. The proposed tariff would presumably be for revenue purposes, since imports do not offer any competition to domestic production.

John M. Buchanan

In Australia, Mr. Buchanan found that Japanese and Russian canned salmon was being imported on a fairly substantial scale because those countries were buying large quantities of Australian wool and are not subject to the restrictions placed on imports from dollar countries such as the U. S. and Canada.

"Australia is internationally prosperous and is exceedingly busy, but the commonwealth has its problems and one of the most serious is the threat of inflation tied in with the need for correcting the balance of trade with dollar countries", said Mr. Buchanan. "Severe restrictions have been placed on imports, but the relatively small imports of canned salmon from this country by Australia might now make the application of these restrictions to that product so necessary from the overall economic standpoint. Nevertheless, Australia's present purchases of Canadian canned salmon are little more than of a token nature".

Last year, Australia was buying B.C. canned salmon at the rate of about $180,000 per quarter. Before the war, Australia was buying 287,000 cases a year (1939), but in 1945 purchases had declined to 28,578 cases, or only about 10% of pre-war.

The importance of Australia's wool exports as a means of maintaining exchange was impressed on Mr. Buchanan when he learned that a price increase of one penny per pound of wool represented a gain of $11,000,000 to the country's economy.

Australia has been without large shore fisheries (by North American standards) due in part to the fact that there are relatively few rivers there. But recently a prawn fishery of some importance has been developed off Brisbane. Crayfish represents a fairly substantial pack, and there is hope of building up a pilchard fishery.

While Australia is tied down by dollar quotas, free dollars are available in New Zealand for purchases of canned salmon and sales there have been proportionately greater, with sales amounting to some $2,000,000 last year. In other words, New Zerland is actually buying about three times as much as Australia.

Bank of Canada Names New Director

John M. Buchanan, president of B. C. Packers, Ltd., has been named a director of the Bank of Canada for a three-year term, succeeding Austin C. Taylor, Vancouver industrialist. The Bank of Canada corresponds to the Federal Reserve Bank in the U. S.

In nominating Mr. Buchanan for the office he was referred to as "an outstanding Canadian" by a member of the Canadian government.

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SPECIAL GALVANIZED

EVERYTHING you ever wanted in a fishing rope is built into this latest Roebling development. It has far better resistance to corrosion, *special* galvanizing protects every wire from end to end. The fibre core is thoroughly impregnated with a preservative that wards off excessive absorption...slows down the harmful action of salt water, mildew and electrolysis. Roebling preforming gives you easiest handling, smooth drum winding, least tendency to kink and set.

Next time you order fishing rope, make it Roebling Preformed Special Galvanized. And for standing rigging and every other purpose there's a Roebling wire rope for top dependability and long-run savings. Call your distributor or the nearest Roebling office. They're in the yellow pages. John A. Roebling's Sons Corporation, Trenton 2, N. J.

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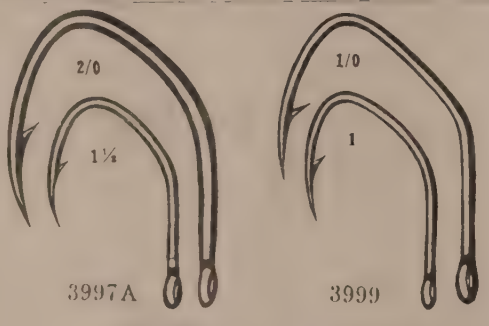

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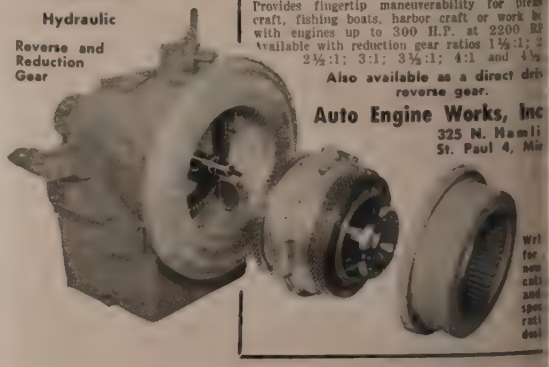

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Also available as a direct driv reverse gear.

Auto Engine Works, Inc

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Wri for new cata and spec ratl deal

'OOD FISH
MARKETING
ection of PACIFIC FISHERMAN--

News and Views of National Trade in Fish and Shellfish

June, 1956

Salmon-Hungry Sellers Overlook Lean Outlook

New York City salmon sellers talk pefully of the new pack, and how od it will be to have more salmon— t apparently without any very clear derstanding of the probability that e "new pack" during the season now ening will be extremely short. They either don't want to believe it; hope that maybe the ugly fact will away if they ignore it.

Anyway, a fast and admittedly newhat superficial look at market- opinion in New York City late s spring left the impression that city's salmon sellers largely are aware of the ominous supply situa- n which seems certain to prevail til new pack is available — *"new pack" of* 1957.

By broker accounts — readily confirmed by an examination of the shelves in a cross section of consumer outlets—the "name brands" are about all left in the way of fancy salmon.

You'll find *Bumble Bee* pretty nearly everywhere, in Chinooks and Bluebacks; and *Icy Point* in Alaska Red Sockeye, although not in the pound flats which are a long item for that brand in New York. They are gone. The bright blue of *Gillnetter's Best* and *Peacock* shows on some shelves; and then of course there are some of the famous private brands.

Cohoes? Scarce. *Red Breast* principally, and priced around 47c for halves and 25c for quarters; but not much of it left.

Fancy salmon prices generally? Here are some samples from Grand Union shelves: *Bumble Bee* Chinook halves, 59c; *Grand Union*, ditto, 51c; *Gillnetter's Best*, 55c; *Deming's* Blueback, 49c; *Icy Point* Alaska Sockeye, 49c; *Icy Point* tall Red, 83c.

What about Pinks? Almost none on display in stores visited. *Showboat* noted most widely, priced about 59c; and *Icy Point* Pinks in one store at 63c.

Brokers reported, however, that most outlets were still offering Pinks at $23 per case of talls; and that the Japanese supplies of tall Pinks apparently had been exhausted, cleaning up at $19.

Halves Pink are rarely used in New York—something the Japanese didn't know, apparently, for it is understood that there are some very substantial quantities of this Japanese item in warehouses in New York, unsold and unwanted.

'una Price "Correction" ails to Upset New York

New York City doesn't think the $2 ril "correction" in lightmeat tuna cing in the primary market will e a lot of effect in either tuna ces or volume in the metropolis — admittedly they don't understand ll, what brought it about, or what ct it will have outside the New k area.

There's a feeling in the New York e that a lot of tuna had been sold rices below those from which the was trimmed; and that this fact, the 60-day retroactive protection ied by the cut, cushioned its effect holesale and retail levels.

F's late April survey of consumer ring showed no effects of the drop. spection of a broad sample of gro- stores of many types and groups ne New York City area showed a ber of interesting points.

Not too much Japanese tuna on display — indicating that much of these imports go into the institutional trade. What Japanese pack there is on sale is largely oil-pack. Very little tuna-in-brine in consumer stores.

Canned bonito everywhere. Virtually every store had it, priced as low as 19c per can for some shelf-worn goods; and as high as 2 for 49c for *Southern Seas* solid pack. Flakes in this same grade were two for 37c.

Famous name brands appear on broadening lines. Here's *Icy Point* solid pack Albacore priced at 41c in a D'Agostino Bros. store—top figure for this item, compared with *Geisha* at 35c.

Scrambled pricing must be a headache. In this same D'Agostino store *Bumble Bee* solid pack fancy Albacore was priced 33c, while solid lightmeat was 35c and *Chunk* Albacore was 37c. It wasn't just that the shelf tags were shifted, either; for the reporter verified the stamped pricing on the cans. It probably happens everywhere, sometimes.

Canned fish get good display in New York chains and downtown semi-supers. It's notable that the canned fish shelf is usually one of the first points on which the purchaser impinges as she pushes her cart around the end of the check-out stations.

There it is: canned fish, well displayed .

Why fish gets a fairer play in New York retail stores than in most cities would make an interesting study. Does the retailer put it there because many of his customers are looking for fish first? Or because there's a better mark-up? Or better volume?

Seems hardly probable; and there's some reason to believe that a better answer is found in the progressive merchandising needed to keep a commanding position in the enormous New York market. This is done by service men whose jobs call for something more than order-taking.

By and large, canned fish gets a first-class, front-of-store, eye-level sales chance in Manhattan.

Bottle Salmon Can Be Imported Into the U. K.

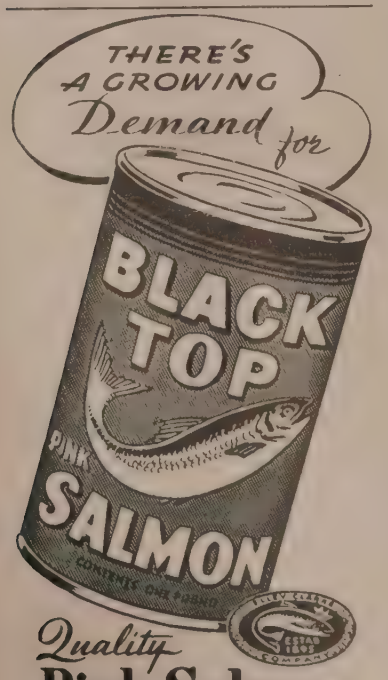
The London High Court has ruled that bottled Canadian salmon, processed in Holland, comes under the description of "fish products, frozen or preserved" and may thus be imported into the United Kingdom. The court rejected the contention of customs authorities that the contents of the jars were legally "fish," the importation of which could be banned.

Wilts Quality Products, London food importers, asked the court to settle its argument with the customs officials so that it could sell the bottled salmon in the British market.

E. A. Durell Shifts to Berger & Plate Company

Edward A. Durell has become associated with Berger & Plate Co., San Francisco canned goods brokers, according to an announcement by H. R. Plate, president.

For the past six years Mr. Durell has been with Regent Canfood Co., San Francisco, as buyer and most recently as sales manager.



Quality
Pink Salmon
KELLEY-CLARKE CO.
2460 6th Ave. S.
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Anchovy Tonnage Leads California March Pack

Anchovy tonnage led the Southern California pack of species other than tuna in March, 4,567 tons as compared to 269 tons of Pacific mackerel and 2,176 tons of Jack. The anchovy tonnage yielded 9,442 1-lb. ovals, 12,475 8 ounce buffets, 5,920 8 ounce oblongs and 68,731 5 ounce round 100s.

Jack produced 33,622 1-lb. talls; Pacific 8,787.

The California legislature placed a cannery limit on anchovy of 21,000 tons for a period of September 1, 1955, through March 31, 1956, and a limit for the period April 1, 1956, through March 31 of 35,000 tons.

Through March 31, 1956, 11,252.23 were landed.

Yellowtail is also limited commercially by the legislature: from July 1, 1955, through June 30, 1956, only 3,000 tons may be taken.

George A. Portello Frozen Food Specialist

George A. Portello has owned his own food products business under the name of the Mid-Coast Trading Co., 190 Greenwich st., San Francisco, Calif.

Mr. Portello, a specialist in frozen foods, is looking for some frozen fish lines to represent in the area. For 15 years he was with the National Ice & Cold Storage Co., and for another 15 years with the Merchants Ice & Cold Storage Co., both of San Francisco.

Mr. Portello's office at 190 Greenwich st. is in the main building of the Merchants Ice & Cold Storage Co.

Japanese Canners Look for Burman Market

Representatives of Japan's export canned saury and sardine association and allied groups are seeking government support for a proposed annual delivery of perhaps 300,000 cases (halves) of saury and sardines to Burma, to be included in Japan's reparations payments.

New L. A. Brokerage Firm

Robert W. Joyce has established a frozen seafood brokerage firm in Los Angeles, under the name of Southern California Trading Corp. Mr. Joyce was formerly associated with Wilbur-Ellis and with Koulouris and Casaretto. The firm's office is located at 1315 E. 7th St.

Japan Frozen Tuna Stability Is Objective

Japan's frozen tuna export indust is moving this spring toward the fo mation of a joint sales company, spo sored mainly by the Japan Expo Frozen Aquatic Products Manuf turers Association.

This will follow the example of port canned tuna, canned crab, cann sardines, and canned sauries. A Jap canned salmon export sales compa is also in prospect.

Objective of the frozen tuna porters is to stabilize the shore pr of the fresh fish and to prevent sha fluctuations in price at any point production and distribution.

All exporters are said to have agre to the plan in principle, and at pre time a committee headed by Kenki Nakabe, president of Taiyo Gyog was progressing rapidly toward co summation of the proposal.

California Mackerel Catch

Southern California mackerel t nage of 1,577 tons created 22,6 cases of fish; anchovies, 2,169 to netted canners 45,291 cases for Ap

. B. McGovern ack on Job

Friends of E. B. McGovern, head McGovern and McGovern, Seattle lmon brokers, are pleased to note at he is back on active duty follow- g his recent illness.

onnell Bros. Co. Announce ersonnel Change

Herbert A. Magnuson, executive ce-president, Connell Bros. Co., d., San Francisco has announced nsfer of Charles R. Kamm to the BC staff in San Francisco. Simul- neously E. W. Lockwood, secretary, ilbur Ellis Co., San Francisco, noti- d the trade that Stephen J. Hurst d been chosen to replace Mr. mm.

Mr. Hurst went to Work for Wilbur lis in Cape Town in 1948.

California Canned Tuna Pack---March, 1956

(In cases of 48s, except as indicated)

White Meat	Solid Pack	Standard Pack	Chunks	Grated, Flakes	Dark & Light	Tonno	*Misc.	Total
1 lb.	529	...	...	...	...	...	...	529
½ lb.	20,579	6,783	18,394	4,804	175	...	...	50,735
¼ lb.	115	4						119
½ lb.							548	548
Total in ½ lbs.							...	**52,401**
Light Meat								
4 lb. (12s)	...	...	3,275	...	...	...	...	3,275
1 lb.	1,465	126	1,591	263	...	...	...	3,445
½ lb.	134,159	2,327	487,882	77,688	5,660	18,795	...	675,511
¼ lb.	13,712	787	20,842	.	...	†19,654	...	54,995
Total in ½ lbs.	...	...	...	...	...	...	...	...
TOTALS	**170,559**	**10,027**	**481,984**	**82,755**	**5,835**	**38,449**	**14,938**	**‡794,066**

*Tuna specialty packs converted to ½ lbs.
†¼ lb. 100s.
‡Total case pack converted to ½ lbs.

California Tuna Operations — April, 1956

(Approximate figures for tonnage and total case pack)

San Pedro Species	Tons	San Diego Species	Tons	Combined Tons
Yellowfin	8,810	Yellowfin	4,140	12,950
Skipjack	2,785	Skipjack	1,600	4,385
Albacore	1,328	Albacore		1,328
Total	**12,923**	**Total**	**5,740**	**18,663**
Pack in cases	**581,140**	**Pack in cases**	**293,941**	**885,081**

Imports, frozen and canned, Southern California, April, 1956

an	Tons	So. America	Tons
ellowfin	1,685	Yellowfin	525
lbacore	1,227	Skipjack	454
Total	2,913	Total	979

Japan's Hairy Crab Stock Sold to Single Buyer

Modification of the terms of sale for a 50,000-case block of canned Kegani or "Hairy" crab to permit handling through the large trading companies brought business for the Japan Canned Crab Sales Co.

With four firms bidding, the deal went to Daii Bussan K.K. at the current check price of $12.65 per case of 48 halves fob. Japan. It will go to a single American buyer, unofficially reported to be the Catt Importing interest of New York.

They Add Up To A Lot of Sales!

SALES COMPANY
3302 SMITH TOWER
SEATTLE 4, WASH.

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Another
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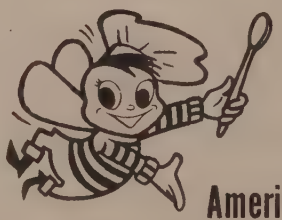
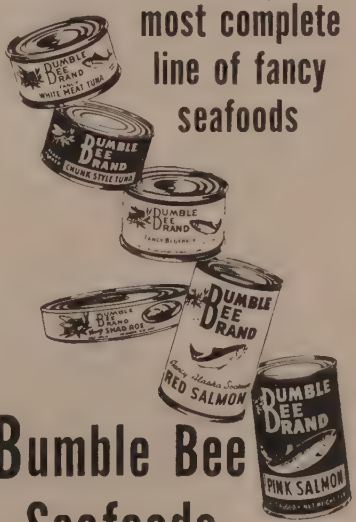
Product

PACKED BY
INDEPENDENT SALMON CANNERIES, INC.
KETCHIKAN, ALASKA
Office: BELL STREET TERMINAL, SEATTLE 1



America's most complete line of fancy seafoods



Bumble Bee Seafoods

Columbia River Packers Assn., Inc.
Astoria, Oregon

Hole-in-One By Fish Divoteer

A 120-yard Hole-in-One was one of the highlights of The Fish Divoteers' eighteenth annual spring golf tournament held at the Rainier Golf and Country Club in Seattle, April 27. Made by Mills Hay, Pacific Propeller Co., it was the first in the organization's history.

With 141 golfers participating, competition was keen for the permanent trophies and the many special prizes awarded at the banquet in the evening which was attended by a record crowd of 196 members and their guests. President Ralph Syverson, San Juan Fishing & Packing Co., presided.

Larry Curtin, Nickel Plate Road, was welcomed back as master of ceremonies. His anecdotes and chatter during the prize awarding period proved that he has lost none of his touch.

Low net in the first division went to Okie Rice, International Sales Corp. George Skarich, Wickwire-Spencer Steel Division, won low gross honors. Don Cauley, Container Corporation of America, and Sam Rubinstein, Whitney & Co., were awarded permanent trophies as winners of low net and low gross honors in the 1955 fall tourney.

In the second division, John Borseth, Farwest Fishermen, Inc., carried off the prize for low net. Homer Kyros, Arctic Maid Fisheries, took home the award for low gross. Bob Gilman, Vita Food Products, Inc., and Harold Parks, Parks Canning Co., received permanent cups as last fall's low net low gross winners.

Walt Tobiason, Dehn & Co., won low net in the third division, with the award for low gross going to Eldon Erickson, N. C. Marine. Harold Heaton, Farwest-Wrangell Co., and Joe Glass, Maritime Shipyards, who won low net and low gross honors last fall, were also given permanent trophies.

Competing in the guest division, Fred Bullock, Seattle Seafoods, Inc., was the low net winner. The prize for low gross went to Harold Anderson, Tidewater Associated Oil Co.

The tournament was staged under the able direction of Steve Kipper, Can-Go Shippers Assn., assisted by Wally Alm, Chicago, Burlington & Quincy Railroad Co.; Larry Carlander, Puget Sound Freight Lines; Dave Craig, Sebastian-Stuart Fish Co.; Paul Staley, Seattle Seafoods, Inc.; Gale Blasingame, Washington Fish & Oyster Co.

Prizes were lined up by the sponsors committee headed by Walter Johnso Halibut Producers Cooperative, sisted by Bill Gilbert, New Engla Fishing & Packing Co.; Robert G ham, P. E. Harris Co.; Dick Frankl Erie Railroad Co.; Bob Ennis, Nor Pacific Seafoods.

Entertainment was arranged by W ter P. Shiel, Jr., Walter P. Shiel & C assisted by Pat Douglas, Skinner Eddy Corp.; Pat Kelly, Brighton Pi Co. Handicapping was done by Ke neth L. Williams, chairman, assist by Jim Braymer, G. P. Halferty & C Stan Bear, Whiz Fish Products Co.

Thomas G. Franck Killed in Auto Accident

The many friends of Thomas Franck, 56, executive vice-president Wilbur-Ellis Co., San Francisco, wor wide factors in sea products, we shocked to learn of his death l month in an auto accident.

He was a native of Spokane, Was and was one of the original partners Wilbur-Ellis Co., when it was found in 1921. He was outstanding in co munity activities.

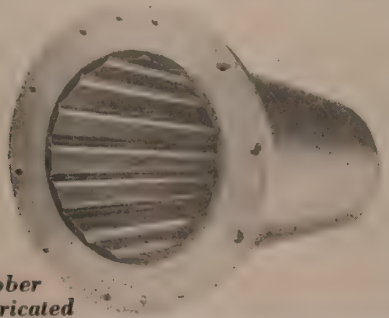
Among the honorary pall bear were Brayton Wilbur, Terry Coon Ned Lewis, Ray Mattson, William Hinckley, all of Wilbur-Ellis Co., a H. A. Magnuson, Connell Bros. C

B.F.Goodrich *Cutless* BEARINGS
PROPELLER SHAFT

ON THE PACIFIC COAST

WISE FISHERMEN CHOOSE CUTLESS BEARINGS FOR PERFORMANCE AND ECONOMY

If you fish for a living you know the importance of dependable propeller shaft bearings. The kind that gives years of trouble-free, QUIET operation. The kind that saves shafts and keeps boat out of drydock. That kind is CUTLESS—the soft rubber, water lubricated bearing —the bearing fishermen depend on to keep them fishing.



Soft Rubber Water Lubricated

Tuna clipper, **Missouri**, uses Goodrich Cutless Bearings

CUTLESS BEARINGS IMPROVE THE PERFORMANC OF ANY VESSEL!

Buy them from your favorite Marine Supply House Ship Repair Yard when you haul out. Large west coa stocks, popular sizes. Factory stock to 10-inch shaft si available overnight by air.

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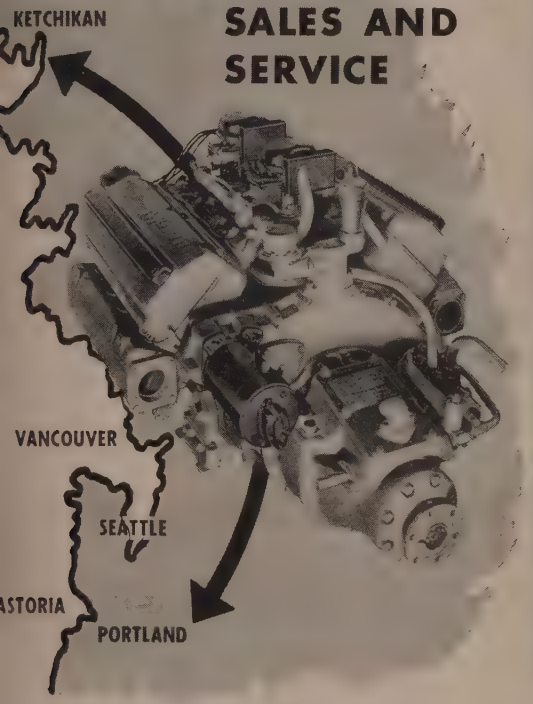

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Phone 26479

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1859 West Georgia Street
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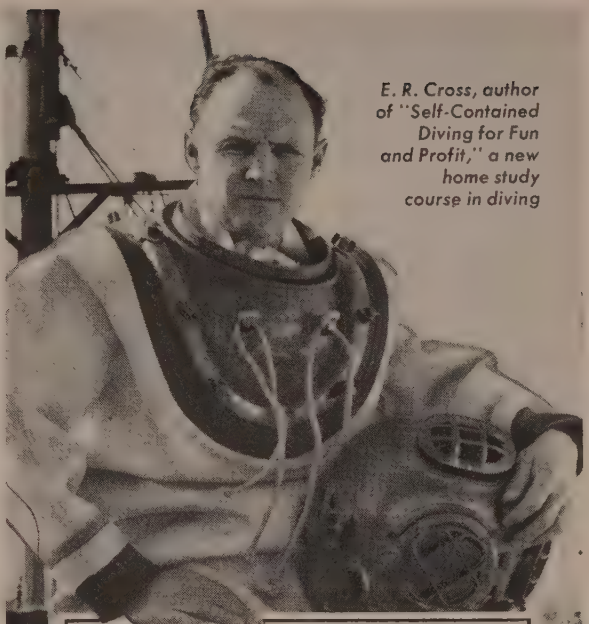
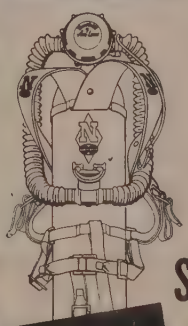


E. R. Cross, author of "Self-Contained Diving for Fun and Profit," a new home study course in diving



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says famous commercial diver E. R. Cross

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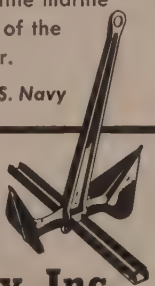
On every cruise carry a Northill Air-Lung, the ruggedest, safest, easiest-breathing Scuba in the world! With it you can make vital underwater repairs hundreds of miles from port. It's your best insurance against fouled anchors or damage below the waterline. It is another fine marine product by Northill, manufacturer of the famous lightweight Northill Anchor.

Used and approved by the U.S. Navy



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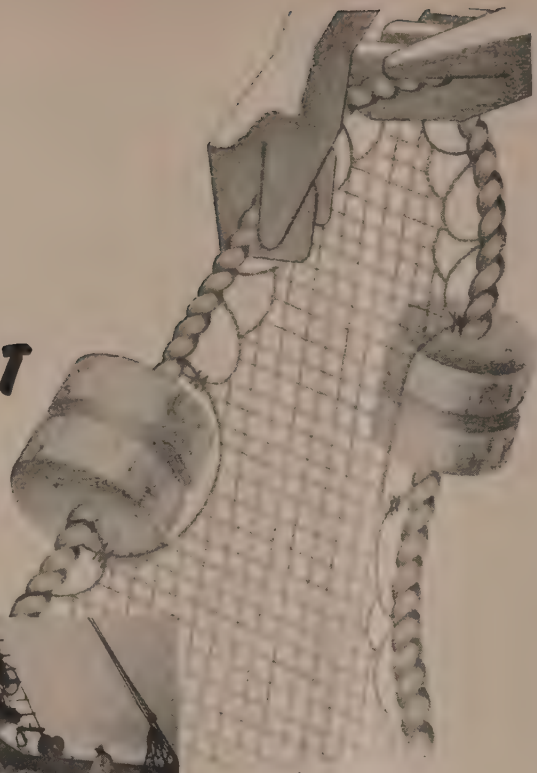
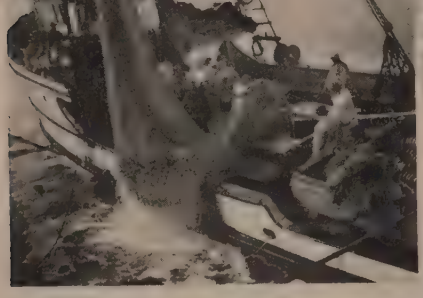


PROTECT YOUR CATCH



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Top grades of pure Manila fibers are carefully selected and blended for extra strength and longer working life. Special lubrication and water repellency treatments make Extra Superior Manila flexible and easy to handle under the toughest fishing conditions.

Don't take a chance with your catch. For toughness, strength and dependability, specify EXTRA SUPERIOR MANILA by Tubbs, a trusted name in rope since 1856.

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F. G. H. Manring Dies

F. G. H. (Hi) Manring, 63, Sea branch manager, Exide Industrial vision, The Electric Storage Batt Co., died in Seattle after a short ness, April 3. He was born in G field, Whitman county, and was gr uated from Washington State Coll with a degree in pharmacy in 19

Mr. Manring owned his own ph macy in Pullman, Wash., until joined the navy during World Wa In 1919 he went to San Franci where he was employed by Exide. came north a year later when the co pany opened the Seattle branch, se ing first on the sales staff, then as ministrative head of the branch finally in 1931 as branch manager

Acting manager of the Seattle bra is C. J. Hawkes, who has served h as branch engineer since 1923. Wo ing under Mr. Hawkes as sales en neer is Harold Schooley.

J. R. Townsend Returns From So. American Surve

James R. Townsend, San Franci fisheries consultant, has returned fr a survey trip made in conjunction w Ray Stewart, Wm. H. Hutchison & sociates, San Pedro, to Costa R Panama, Ecuador, Venezuela, and West Coast of Mexico.

Mr. Townsend was particularly thusiastic over the recent developm of the shrimp fishing and proces industry in Costa Rica, Panama Ecuador. He said that further i cations of further expansion in shrimp industry in those countries indicated.

Golden State Fisheries Plant Changes Hands

Wilbur-Ellis Co., San Francisco products factors, has bought Golden State Fisheries sardine re tion plant at Benicia, Calif., from C ence J. Garabotti.

The plant had a 15 ton Hiller p and steam tube dryer and other eq ment, which will be sold.

Cannery Row Properties Purchase Additional Plan

Cannery Row Properties Co., M terey, has purchased the former Carlos Canning Co. plant there f the Donald Duck beverage inter The remaining sardine processing chinery will be sold.

The Western Processing Co. s water plant at Monterey, formerly erated by the Hovden interests, been purchased by Cannery Row sociates, Monterey, and will be mantled and the machinery sold

S. Standards
pposed for Fish Sticks

For the first time in history "Standds for Grades" of a fishery product officially proposed. In the April h issue of the Federal Register there ears a notice that the Department Agriculture, upon the recommendan of the Fish and Wildlife Service, poses to issue United States Standds for Grades for Frozen Fried Fish ks.

The notice indicates that 60 days are vided for the submission of comnts and arguments. Thereafter, the ndards, after necessary modificans, if any, may be published as offivoluntary standards. Copies will made available by the Fish and dlife Service, Washington 25, D. C.

Also now in process of development proposed standards for fish blocks e raw material from which many sticks are prepared), and frozen breaded shrimp.

The proposed standard for frozen sticks applies to whole rectgular-shaped portions of fish flesh, aded, precooked, and frozen. It is ommended that the "largest dimenn" (length) of the sticks be at least ee times that of the "next largest nension" (width), and that the avge weight of the individual sticks be less than ¾ ounce and not greater n 1¼ ounces. The grades proposed lude "U. S. Grade B." Quality be these grades would be classified as ubstandard."

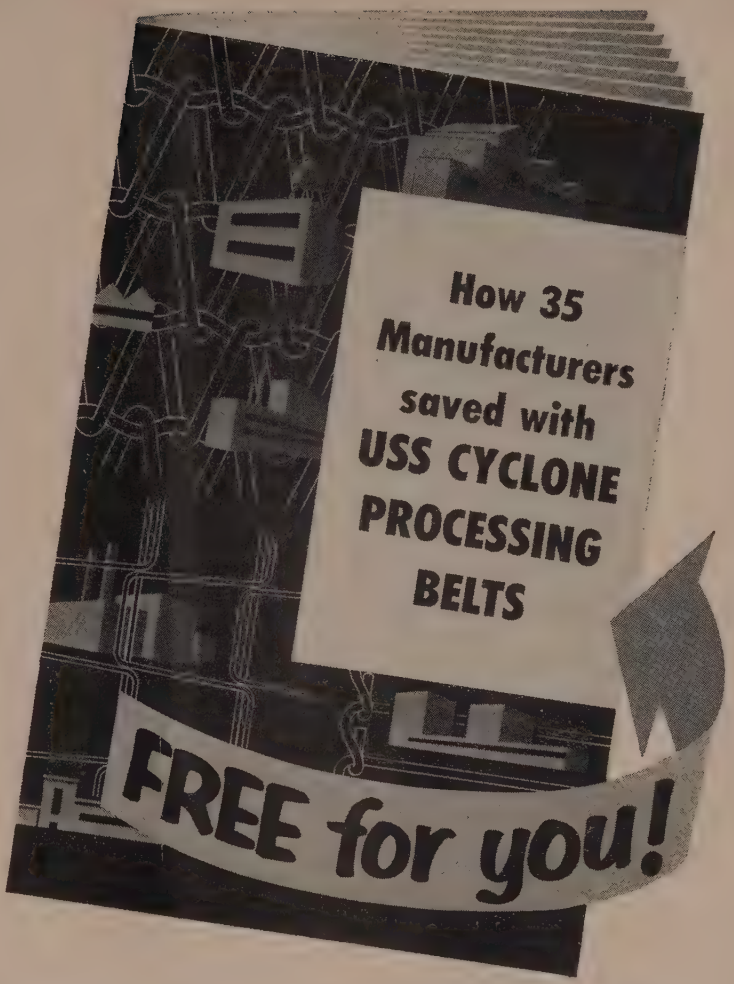
Technical requirements for ascerning quality include the factors of: vor and odor; appearance as to size iformity, color, and coating; defects; h character elements as ease of aration, wholeness, freedom from ness or crumbliness in the coating; derness moistness of the flesh, and consistency and adherence of the ting on the heated product.

gional Water Pollution
nendment in California

Of interest to the fish canners of ifornia is the fact that by amendnt to a bill which consolidated con of water resources in one departnt, control over water pollution was ined by regional boards which forrly controlled all water problems activity in their respective terries. The bill, with amendment, was ntly signed by Governor Knight.

ncent Thomas Retains Post

Vincent Thomas, Assemblyman Dnocrat from San Pedro, has been ppointed to the post of member he Pacific Marine Fisheries Comsion by Governor Knight of Calinia.



A book on production line savings...

Here are specific stories of how thirty-five prominent manufacturers managed to cut down on production costs by using Cyclone Processing Belts. In each case, costs slid down when Cyclone Processing Belts started up.

Send for this *free* booklet illustrating actual techniques and uses of production line methods. It's chock full of ideas that add up to dollar and cents savings. We've chosen each example carefully to cover as many fields as we could. You'll find Cyclone Processing Belts used in acid, heat, water, brine and many other operations. Just clip the attached coupon and mail it. It will pay you to do it . . . TODAY!

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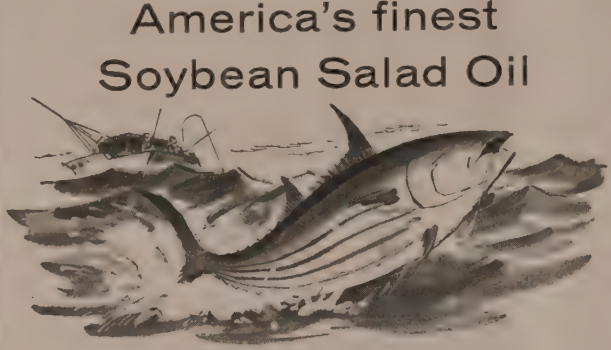

If you'll *taste—smell*—and *try* Archer "S" Soybean Salad Oil, you'll see why so many tuna processors are using it.

These processors know that Archer "S" *keeps* the delicate tuna flavor. Helps build customer demand for their products—fast! That's because Archer "S" is refined and deodorized by a continuous ribbon process . . . cannot vary in quality. Every time you order Archer "S" Soybean Salad Oil, you get the *same* clarity of color . . . the *same* purity and blandness.

Archer "S" Soybean Salad Oil

Archer-Daniels-Midland co.
700 Investors Building, Minneapolis 2, Minn.

"N. B. Scofield" Follows Up Tuna Exploration Cruise

The *N. B. Scofield*, research vess of the California Department of Fi and Game, recently completed a crui to explore the subsurface distributio and relative abundance of Yellowf and Bigeye tuna in South and Centr American waters. This cruise was seasonal follow-up to the tuna lon line cruise of October and Novembe 1955.

Tuna Lab Chief Moved To Gulf of Panama

Antonio Landa, formerly in char of the Inter-American Tropical Tu Commission's laboratory in Cos Rica, has been transferred to the co mission's new laboratory on Tobo Island in the Gulf of Panama. He man Solvado, a native of Costa Ric succeeds Landa at Puntarenas.

Otoji Hari Dies

One of the most able and respect fish cannery staff members on Tern nal Island died early in April in a Lo Beach hospital. He was Otoji Ha 69, who had worked with the Pan P cific Fisheries cannery for about t years. He has been replaced by Lo Mascolo, Jr.

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HALIBUT AND SALMON
PORTION CONTROLLED STEAKS

and now . . .
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SALMON
and FISH
STIX
fresh frozen — breaded — ready to cook

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FISH OF ALL KINDS
Mildcured a Frozen from Principal C ters of Alask
SEATTLE OFFICE – 1844 WESTLAKE NORTH

ng Beach Seafoods ew Plant a Model

One of the most complete, and new, nts for handling fresh and frozen foods in Southern California is the ng Beach Seafoods Co.

Owners are George B. Stilwell and son, Kenneth B. The firm was nded in 1913.

Selling and handling all types of , principally for the institutional de, Long Beach Seafoods has grown idly over the years, and Mr. Stilwell planned and built into the plant ny of his own ideas for more eco- nical handling of seafood products. Refrigeration is by three Vilter com- ssors, one 6x6, one 5x5 and a ster. There is also a Vilter Polar- ke ice machine. There are three frigerated rooms, one a quick ezer, one holding room and one rking room.

The plant contains 6,000 cubic feet cooler space for handling fresh ns. The freezer space consists of 000 cubic feet, enough storage for roximately 10 carloads of seafood ducts.

The building overall is 75x110, is structed of concrete and steel in dern design. For slicing frozen ibut, etc., there's a Butcher Boy, and the plant is equipped with a large lobster "pot" and two smaller units for cooking lobster and shrimp.

Santa Inez Plant Sold

Wesley Dodge and associates, Monterey, have purchased the Santa Inez Fisheries reduction plant at Moss Landing. It was a 10-15 ton per hour plant, and it is reported that it will be dismantled and the equipment sold.

Meal-Saving Device At Westgate-Calif.

Westgate-California Tuna Packing Co.'s San Diego reduction plant has installed a new cyclone device between the grinder and dryer, designed to trap meal particles which, in the past, have been wasted. Another improvement is the dredging of the approaches to both sides of the unloading pier at the rear of the cannery, increasing the depth to 16′ at zero tide.

Tom Wooton Dies At Age of 90

Tom Wooton, who would have been 91 in May, one of the Northwest's best-known cannerymen and a resident in Astoria, Oregon, for 57 years, died April 13. Mr. Wooton had been in cannery work in the Lower Columbia area and Alaska since 1895.

Fisheries Plant Sold

James R. Townsend, San Francisco fisheries consultant, has purchased the Red Rock Fisheries Plant No. 2, a sardine reduction plant at Pt. San Pablo, Richmond, Calif., from Parr-Richmond Terminals. The plant will be dismantled and the equipment including a 10 ton Enterprise press and related equipment will be sold.

50th Anniversary Food and Drugs Act

This year the Federal Food and Drug Administration is celebrating the 50th anniversary of the passage of the first national food law, the Food and Drugs Act of 1906. Protection of the public from foods dosed with chemical preservatives, candy colored with poisonous dye, narcotic soothing syrups for babies, and the tragic consequences which followed led Congress to pass this law under the leadership of Dr. Harvey W. Wiley. A major milestone in this 50 years of cooperation is the Better Salmon Control Plan put into effect in 1937.

In this connection a public open house is to be held at the Seattle District Headquarters, 501 Federal Office Building, First Avenue and Madison, June 25 to 29, inclusive.

MORE NET PROFIT WITH STANDARD LOW TEMPERATURE FISH MEAL DRYERS

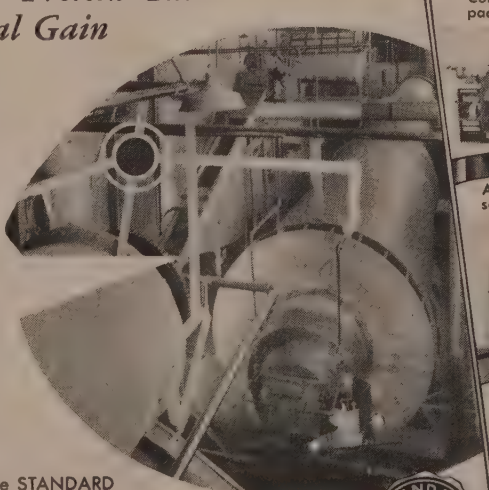
- 2% To 5% Protein Gain
- 2½% Meal Gain

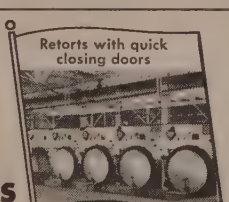
HIGH PROTEIN MEAL. It has been proven by actual laboratory tests that STANDARD low temperature drying produces up to 2½% more meal with at least 2% more protein than with high temperature drying.

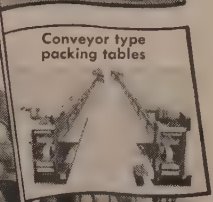
With a STANDARD *plant there is no waste.* You are assured peak delivery of top quality low moisture, low acid oil.

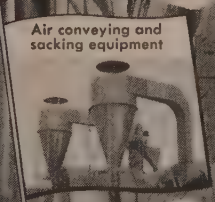
STANDARD low temperature dryers eliminate scorching and burnt odors... will not degrade or burn protein. Expensive vapor incinerators are eliminated.

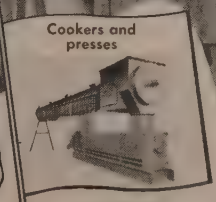
FOR MORE NET PROFITS ... investigate STANDARD Fish Processing equipment, today!











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Smith, assistant to Pacific Division
ger of sales, American Can Company.

. Smith Moves
ales Post in S. F.

ointment of D. B. Smith to serve as
ant to the manager of sales in the
ican Can Company's Pacific Division
uarters in San Francisco has been
nced by Alexander Black, West Coast
manager.

Smith was a member of the Canco
staff in the San Jose district. He
d Canco in 1947 as a trainee in San
isco.

thon Corporation Appoints
Angeles Representative

athon Corporation has announced the
ntment of Dick Bothwell, Seattle, as
Representative in the Los Angeles
in the Frozen Foods Division. He
es his new position in April and
will be working with Dick Lemberg of Los Angeles.

Louis Efremsky, Jr.
Apointed to Sales Staff

Louis Efremsky, Jr., an employee of Fairbanks, Morse & Co., San Francisco branch for a number of years, has been appointed to their diesel engine sales staff, according to Roger Murray, branch manager.

Mr. Efremsky will cover northern California in the interests of marine and industrial diesel engine sales for the company.

Canco Shifts Sales Aides
On West Coast

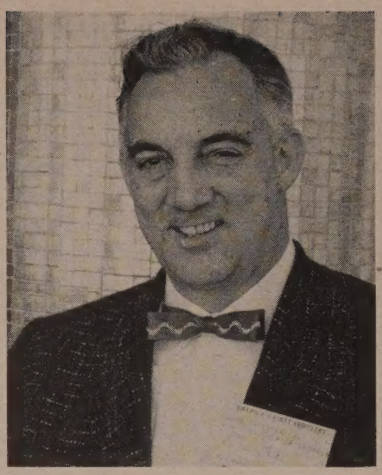
Transfers and reassignments in the American Can Company's sales organization on the West Coast have been announced by Alexander Black, Pacific Division sales manager.

Carlton F. Sargent, a member of the company's Southern California sales district, has been transferred to the Seattle sales office.

James F. Bowe, a member of the Portland, Oregon, sales staff, has been shifted to the Southern California sales district.

John A. McWhirter, formerly on duty in the Oakland, California, sales district, has been assigned to the company's sales staff in San Jose.

William R. Orme, a member of the San Francisco division sales staff, has been transferred to the company's sales office in Portland, Oregon.



John Twelvetrees, manager of West Coast district, Downyflake Breader Mix Division, Doughnut Corp. of America, at Miami Beach N.F.I. convention, where his company had a spectacular exhibition.

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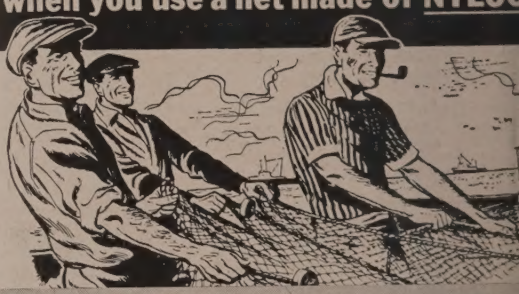

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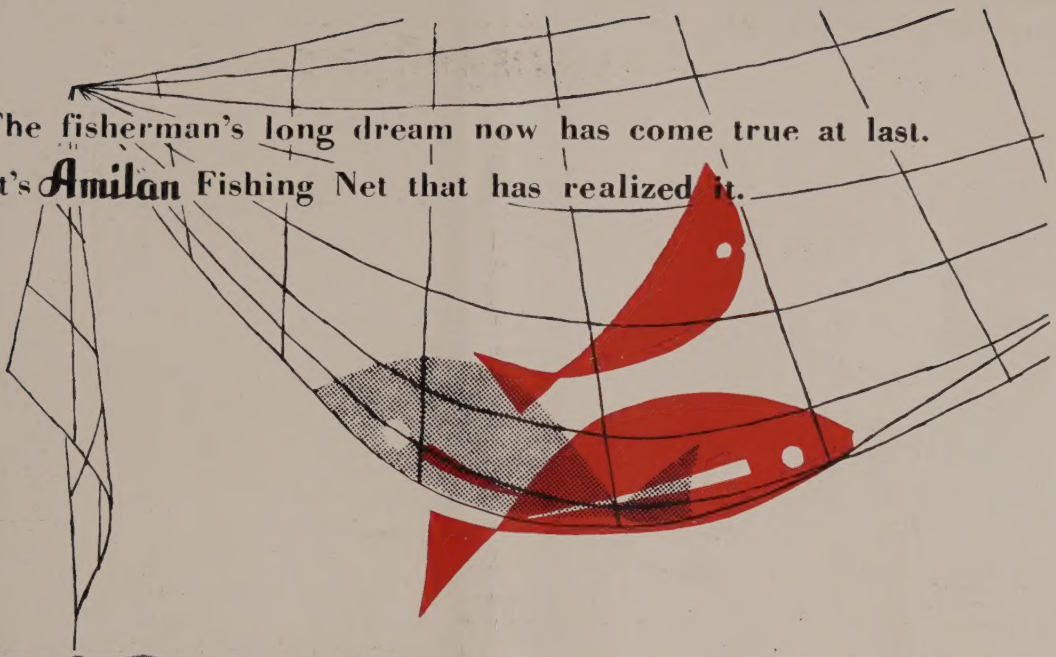

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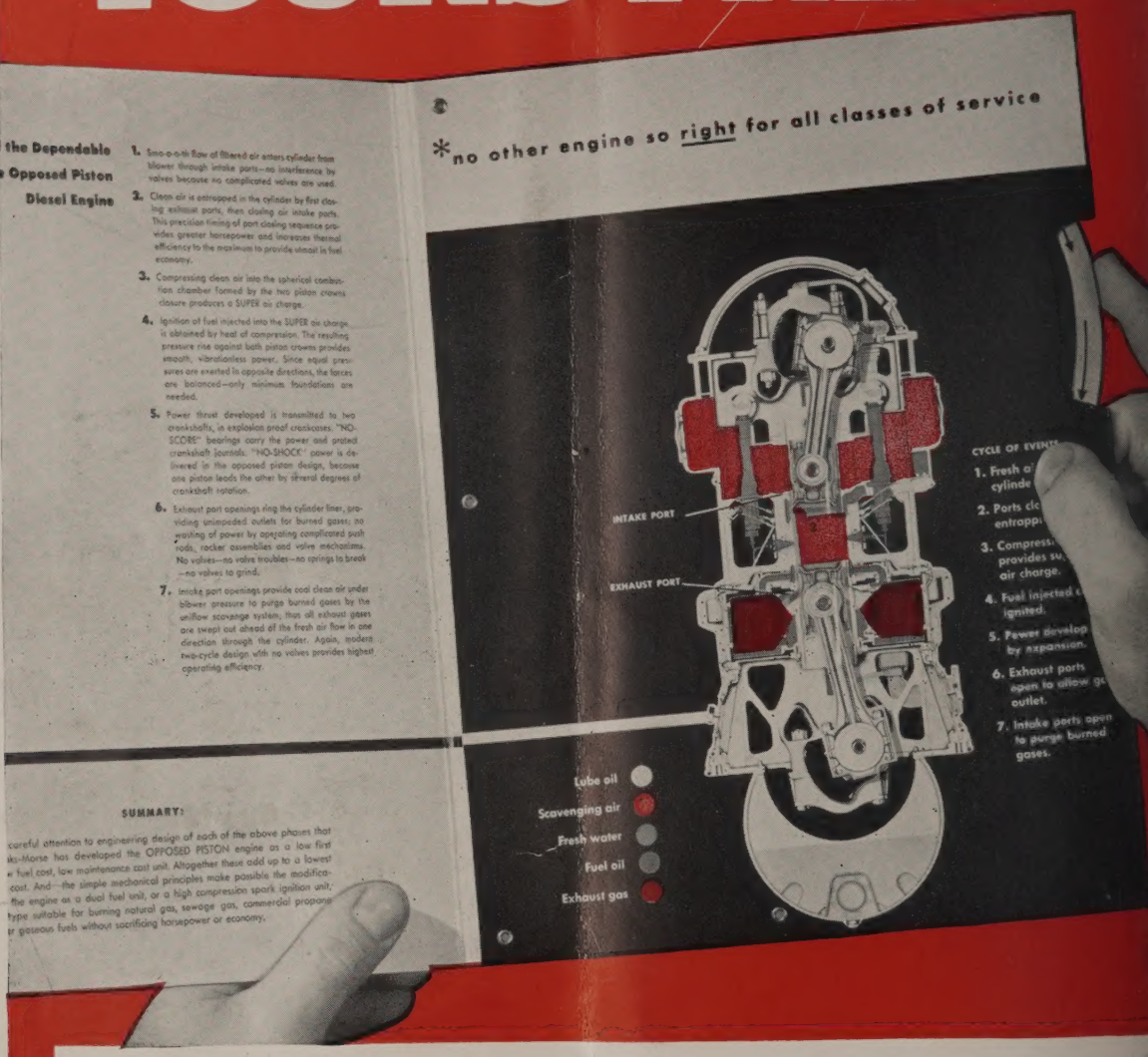
the Dependable
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1. Smo-o-o-th flow of filtered air enters cylinder from blower through intake ports—no interference by valves because no complicated valves are used.
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3. Compressing clean air into the spherical combustion chamber formed by the two piston crowns closure produces a SUPER air charge.
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6. Exhaust port openings ring the cylinder liner, providing unimpeded outlets for burned gases; no wasting of power by operating complicated push rods, rocker assemblies and valve mechanisms. No valves—no valve troubles—no springs to break —no valves to grind.
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3. Compress provides su air charge.
4. Fuel injected ignited.
5. Power develop by expansion.
6. Exhaust ports open to allow g outlet.
7. Intake ports open to purge burned gases.

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